

# SEARCH REQUEST FORM

Requestor's Name: \_\_\_\_\_ Serial Number: \_\_\_\_\_  
Date: \_\_\_\_\_ Phone: \_\_\_\_\_ Art Unit: \_\_\_\_\_

## Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

## STAFF USE ONLY

Date completed: <u>2/21</u>	Search Site	Vendors
Searcher: <u>P. Schreiber 308-4292</u>	____ STIC	____ IG
Terminal time: <u>7</u>	<u>✓</u> CM-1 <u>603</u>	____ STN
Elapsed time: <u>13</u>	____ Pre-S	____ Dialog
CPU time: _____	Type of Search	____ APS
Total time: _____	____ N.A. Sequence	____ Geninfo
Number of Searches: _____	<u>5</u> A.A. Sequence	____ SDC
Number of Databases: _____	____ Structure	____ DARC/Questel
	____ Bibliographic	<u>✓</u> Other <u>Comptel</u>

**This Page Blank (uspto)**

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## OM protein - protein search, using sw model

Run on: February 20, 2003, 08:09:37 : Search time 3.25768 Seconds

(without alignments)  
478.688 Million cell updates/sec

Title: US-09-819-136-2\_COPY\_299\_351

Perfect score: 314  
Sequence: 1 CLPDVQACTGPTSPHLVLMH.....RGCDGARGFETFEACQDAC 53

## Scoring table:

BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 2942292 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

## Database :

1: Issued Patents\_AA:\*  
2: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PCtus\_COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/Backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	101.5	32.3	70	1	US-07-791-213D-5 Sequence 5, Appli
2	101.5	32.3	70	1	US-08-293-150A-5 Sequence 5, Appli
3	101.5	32.3	91	1	US-07-791-213D-89 Sequence 89, Appli
4	101.5	32.3	91	1	US-07-972-387-2 Sequence 2, Appli
5	101.5	32.3	91	1	US-08-431-412-2 Sequence 2, Appli
6	101.5	32.3	91	1	US-08-057-971-2 Sequence 2, Appli
7	101.5	32.3	91	1	US-08-293-150A-89 Sequence 89, Appli
8	100.5	32.0	68	1	US-07-972-387-37 Sequence 37, Appli
9	100.5	32.0	68	1	US-07-972-387-40 Sequence 37, Appli
10	100.5	32.0	68	1	US-08-431-412-37 Sequence 37, Appli
11	100.5	32.0	68	1	US-08-431-412-40 Sequence 40, Appli
12	100.5	32.0	68	1	US-08-057-971-37 Sequence 37, Appli
13	100.5	32.0	68	1	US-08-057-971-40 Sequence 40, Appli
14	100.5	32.0	89	1	US-07-972-387-10 Sequence 10, Appli
15	100.5	32.0	89	1	US-08-431-412-10 Sequence 10, Appli
16	100.5	32.0	89	1	US-08-057-971-10 Sequence 10, Appli
17	100.5	32.0	101	1	US-07-972-387-22 Sequence 22, Appli
18	100.5	32.0	101	1	US-07-972-387-26 Sequence 26, Appli
19	100.5	32.0	101	1	US-08-431-412-22 Sequence 22, Appli
20	100.5	32.0	101	1	US-08-431-412-28 Sequence 28, Appli
21	100.5	32.0	101	1	US-08-057-971-22 Sequence 22, Appli
22	100.5	32.0	101	1	US-08-057-971-28 Sequence 28, Appli
23	99.5	31.7	89	1	US-07-972-387-8 Sequence 8, Appli
24	99.5	31.7	89	1	US-08-431-412-8 Sequence 8, Appli
25	99.5	31.7	89	1	US-08-057-971-8 Sequence 8, Appli
26	99	31.5	61	2	US-08-829-876-158 Sequence 158, App
27	99	31.5	61	4	US-09-234-874A-158 Sequence 158, App

28	98.5	31.4	58	3	US-08-676-124-130 Sequence 130, App
29	98.5	31.4	58	3	US-09-414-878-130 Sequence 130, App
30	98.5	31.4	58	3	US-09-240-136-130 Sequence 130, App
31	98.5	31.4	58	4	US-09-638-770A-130 Sequence 130, App
32	98.5	31.4	89	1	US-07-972-387-16 Sequence 16, Appli
33	98.5	31.4	89	1	US-08-431-412-16 Sequence 16, Appli
34	98.5	31.4	89	1	US-08-057-971-16 Sequence 16, Appli
35	98	31.2	61	2	US-08-829-876-141 Sequence 141, App
36	98	31.2	61	2	US-08-829-876-164 Sequence 164, App
37	98	31.2	61	4	US-09-234-874A-141 Sequence 141, App
38	98	31.2	61	4	US-09-234-874A-164 Sequence 164, App
39	97	30.9	57	2	US-08-829-876-128 Sequence 128, App
40	97	30.9	57	4	US-09-234-874A-128 Sequence 128, App
41	97	30.9	61	2	US-08-829-876-166 Sequence 166, App
42	97	30.9	61	2	US-08-829-876-194 Sequence 194, App
43	97	30.9	61	4	US-09-234-874A-166 Sequence 166, App
44	97	30.9	61	4	US-09-234-874A-194 Sequence 194, App
45	96.5	30.7	68	1	US-07-972-387-35 Sequence 35, Appli

## ALIGNMENTS

RESULT 1  
US-07-791-213D-5  
Sequence 5, Application US/07791213D  
Patent No. 540895  
GENERAL INFORMATION:  
APPLICANT: MORISHITA, Hideaki  
APPLICANT: KANAMORI, Toshinori  
APPLICANT: NOBUHARA, Masahiro  
TITLE OF INVENTION: POLYPEPTIDE, DNA FRAGMENT ENCODING THE  
TITLE OF INVENTION: SAME AND PROCESS FOR PRODUCING THE SAME, AND ENZYME  
TITLE OF INVENTION: INHIBITION PROCESS, DRUG COMPOSITION AND METHODS OF  
NUMBER OF SEQUENCES: 108  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Burns, Doane, Swecker & Mathis  
STREET: P. O. Box 1404  
CITY: Alexandria  
STATE: Virginia  
COUNTRY: United States  
ZIP: 22313-1404  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07791,213D  
FILING DATE: 13-NOV-1991  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: JP 2-306745  
FILING DATE: 13-NOV-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: Neuth, Donna M  
REGISTRATION NUMBER: 36,607  
REFERENCE/DOCKET NUMBER: 029650-032  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 836-6620  
TELEFAX: (703) 836-2021  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 70 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-07-791-213D-5  
Query Match 32.3%; Score 101.5; DB 1; Length 70;  
Best Local Similarity 35.2%; Pred. No. 2.2e-05;  
Matches 19; Conservative 8; Mismatches 22; Indels 5; Gaps 1;

OY 5 VOACT-----GPTSPHLVLMHYDPORGCMTEFPARGCDGARGFETYEACQAC 53  
| | | | | : | | : | | : | | | | | : | | : | | : | | : | | : |  
Db 2 VAACNLPIVRGPCRAFIQLMAFDVAKGKCVLFPGCGCGNGNKFSEKRECYC 55

## RESULT 2

US-08-293-150A-5  
; Sequence 5, Application US/08293150A  
; Patent No. 5792629

## GENERAL INFORMATION:

APPLICANT: MORISHITA, Hideaki  
APPLICANT: KANAMORI, Toshinori  
APPLICANT: NOBUHARA, Masahiro  
TITLE OF INVENTION: POLYPEPTIDE, DNA FRAGMENT ENCODING THE  
TITLE OF INVENTION: SAME AND PROCESS FOR PRODUCING THE SAME, AND ENZYME  
TITLE OF INVENTION: INHIBITION PROCESS, DRUG COMPOSITION AND METHODS OF  
TREATING USING THE SAME  
NUMBER OF SEQUENCES: 110  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS  
STREET: P.O. Box 1404  
CITY: Alexandria  
STATE: Virginia  
COUNTRY: United States  
ZIP: 22313-1404

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/293,150A  
FILING DATE: 19-AUG-1994  
CLASSIFICATION: 514

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/791,213  
FILING DATE: 13-NOV-1990  
PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 2-306745  
FILING DATE: 13-NOV-1990

ATTORNEY/AGENT INFORMATION:  
NAME: Meuth, Donna M.

REGISTRATION NUMBER: 36,607

REFERENCE/DOCKET NUMBER: 029650-049

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 836-6620  
TELEFAX: (703) 836-2021

INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:

LENGTH: 70 amino acids  
TYPE: amino acid  
TOPOLOGY: linear

MOLECULE TYPE: peptide  
US-08-293-150A-5

Query Match 32.3%; Score 101.5; DB 1; Length 70;  
Best Local Similarity 35.2%; Pred. No. 2.2e-05;  
Matches 19; Conservative 8; Mismatches 22; Indels 5; Gaps 1;

OY 5 VOACT-----GPTSPHLVLMHYDPORGCMTEFPARGCDGARGFETYEACQAC 53  
| | | | | : | | : | | : | | | | | : | | : | | : | | : | | : |  
Db 2 VAACNLPIVRGPCRAFIQLMAFDVAKGKCVLFPGCGCGNGNKFSEKRECYC 55

## RESULT 3

US-07-791-213D-89  
; Sequence 89, Application US/07791213D  
; Patent No. 5409895

## GENERAL INFORMATION:

APPLICANT: MORISHITA, Hideaki  
APPLICANT: KANAMORI, Toshinori  
APPLICANT: NOBUHARA, Masahiro

TITLE OF INVENTION: POLYPEPTIDE, DNA FRAGMENT ENCODING THE  
TITLE OF INVENTION: SAME AND PROCESS FOR PRODUCING THE SAME, AND ENZYME  
TITLE OF INVENTION: INHIBITION PROCESS, DRUG COMPOSITION AND METHODS OF  
TREATING USING THE SAME  
NUMBER OF SEQUENCES: 108  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Burns, Doane, Swecker & Mathis  
STREET: P.O. Box 1404  
CITY: Alexandria  
STATE: Virginia  
COUNTRY: United States  
ZIP: 22313-1404

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/791,213D  
FILING DATE: 13-NOV-1991  
CLASSIFICATION: 435

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: JP 2-306745  
FILING DATE: 13-NOV-1990  
ATTORNEY/AGENT INFORMATION:

NAME: Meuth, Donna M

REGISTRATION NUMBER: 36,607

REFERENCE/DOCKET NUMBER: 029650-032

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703) 836-6620  
TELEFAX: (703) 836-2021

INFORMATION FOR SEQ ID NO: 89:  
SEQUENCE CHARACTERISTICS:

LENGTH: 91 amino acids  
TYPE: amino acid  
TOPOLOGY: linear

MOLECULE TYPE: protein  
US-07-791-213D-89

Query Match 32.3%; Score 101.5; DB 1; Length 91;  
Best Local Similarity 35.2%; Pred. No. 2.9e-05;  
Matches 19; Conservative 8; Mismatches 22; Indels 5; Gaps 1;

OY 5 VOACT-----GPTSPHLVLMHYDPORGCMTEFPARGCDGARGFETYEACQAC 53  
| | | | | : | | : | | : | | | | | : | | : | | : | | : | | : |  
Db 23 VAACNLPIVRGPCRAFIQLMAFDVAKGKCVLFPGCGCGNGNKFSEKRECYC 76

## RESULT 4

US-07-972-387-2  
; Sequence 2, Application US/07972387  
; Patent No. 5451659

## GENERAL INFORMATION:

APPLICANT: Morishita, Hideaki  
APPLICANT: Kanamori, Toshinori  
APPLICANT: No. 5451659uhara, Masahiro

TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the  
TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for  
Producing the Same  
NUMBER OF SEQUENCES: 76

CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Birch, Stewart, Kolaesch & Birch  
STREET: 301 N. Washington St.

CITY: Falls Church  
STATE: Virginia

COUNTRY: USA  
ZIP: 22046-0747

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/07/972,387  
FILING DATE: 19921105  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MURPHY JR., Gerald M.  
REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 1110-124P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-241-1300  
TELEFAX: 703-241-2848  
TELEX: 248345  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 91 amino acids  
TYPE: AMINO ACID  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-07-972-387-2

Query Match 32.3%; Score 101.5; DB 1; Length 91;  
Best Local Similarity 35.2%; Pred. No. 2.9e-05;  
Matches 19; Conservative 8; Mismatches 22; Indels 5; Gaps 1;

QY 5 VOACT-----GPTSPHLVLMHYDPORGCMTPPARGCDGAARGFETYEACQAC 53  
DB 23 VAACNLPYRGPCRAFIQLMADFVAKGKCVLPYGGCGGNGMKFSEKRECYC 76

US-08-431-412-2  
Sequence 2, Application US/08431412  
Patent No. 5589360  
GENERAL INFORMATION:  
APPLICANT: Morishita, Hideaki  
APPLICANT: Kanamori, Toshinori  
APPLICANT: No. 5589360uhara, Masahiro  
TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the  
TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for  
NUMBER OF INVENTION: Producing the Same  
NUMBER OF SEQUENCES: 76  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Birch, Stewart, Kolasch & Birch  
STREET: 301 N. Washington St.  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22046-0747  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/431,412  
FILING DATE: 28-APR-1995  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/972,387  
FILING DATE: 05-NOV-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: MURPHY JR., Gerald M.  
REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 1110-124P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-241-1300  
TELEFAX: 703-241-2848  
TELEX: 248345  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 91 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein

US-08-431-412-2

Query Match 32.3%; Score 101.5; DB 1; Length 91;  
Best Local Similarity 35.2%; Pred. No. 2.9e-05;  
Matches 19; Conservative 8; Mismatches 22; Indels 5; Gaps 1;

QY 5 VOACT-----GPTSPHLVLMHYDPORGCMTPPARGCDGAARGFETYEACQAC 53  
DB 23 VAACNLPYRGPCRAFIQLMADFVAKGKCVLPYGGCGGNGMKFSEKRECYC 76

US-08-057-971-2  
Sequence 2, Application US/08057971  
Patent No. 5679770  
GENERAL INFORMATION:  
APPLICANT: Morishita, Hideaki  
APPLICANT: Kanamori, Toshinori  
APPLICANT: No. 5679770uhara, Masahiro  
TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the  
TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for  
NUMBER OF INVENTION: Producing the Same  
NUMBER OF SEQUENCES: 81  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Birch, Stewart, Kolasch & Birch  
STREET: P.O. Box 747  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: USA  
ZIP: 22040-0747  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/057,971  
FILING DATE: 06-MAY-1993  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MURPHY JR., Gerald M.  
REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 1110-129P  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 703-205-8000  
TELEFAX: 703-205-8050  
TELEX:  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 91 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-057-971-2

Query Match 32.3%; Score 101.5; DB 1; Length 91;  
Best Local Similarity 35.2%; Pred. No. 2.9e-05;  
Matches 19; Conservative 8; Mismatches 22; Indels 5; Gaps 1;

QY 5 VOACT-----GPTSPHLVLMHYDPORGCMTPPARGCDGAARGFETYEACQAC 53  
DB 23 VAACNLPYRGPCRAFIQLMADFVAKGKCVLPYGGCGGNGMKFSEKRECYC 76

US-08-293-150A-89  
Sequence 89, Application US/08293150A  
Patent No. 5792629  
GENERAL INFORMATION:  
APPLICANT: MORISHITA, Hideaki  
APPLICANT: KANAMORI, Toshinori  
APPLICANT: NOBUHARA, Masahiro  
TITLE OF INVENTION: POLYPEPTIDE, DNA FRAGMENT ENCODING THE

RESULT 8  
 US-07-972-387-37  
 : Sequence 37, Application US/07972387  
 : Patent No. 5451659  
 :  
 : GENERAL INFORMATION:  
 :  
 : APPLICANT: Morishita, Hideaki  
 : APPLICANT: Kanamori, Toshinori  
 : TITLE OF INVENTION: No. 5451659uhara, Masahiro  
 : TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the  
 : SAME, Drug Composition Containing the Same and Process for  
 : TITLE OF INVENTION: Same, Drug Composition Containing the Same  
 : NUMBER OF SEQUENCES: 76  
 :  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESS: Birch, Stewart, Kolasch & Birch  
 : STREET: 301 N. Washington St.  
 :  
 : CITY: Falls Church  
 :  
 : STATE: Virginia  
 :  
 : COUNTRY: USA  
 :  
 : ZIP: 22046-0747  
 :  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: Floppy disk  
 : COMPUTER: IBM PC compatible  
 :  
 : OPERATING SYSTEM: PC-DOS/MS-DOS

	Query Match	32.0%	Score 100.5	DB 1	Length 68
	Best Local Similarity	36.5%	Pred. 2.9e-05		
	Matches 19; Conservative	9;	Mismatches 21;	Indels 3;	Gaps 1
QY	2	LPDQACTGPTSPHLYLWHDPRGGCKMTFPAKRGDGAARFETVEACQAC	53		
Db	5	LPITV--GPRAFITLMAFDWKGCVLEFPFGGQSGNGFNFSDEKRCREK	53		

RESULT 9  
 US-07-972-387-40  
 Sequence 40, Application US/07972387  
 Patent No. 5451659  
 GENERAL INFORMATION:  
 APPLICANT: Morishita, Hideaki  
 APPLICANT: Kanamori, Toshinori  
 APPLICANT: No. 5451659uhara, Masahiro  
 TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the  
 TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for  
 NUMBER OF SEQUENCES: 76  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Birch, Stewart, Kolasch & Birch  
 STREET: 301 N. Washington St.  
 CITY: Falls Church  
 STATE: Virginia  
 COUNTRY: USA  
 ZIP: 22046-0747  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/07/972,387  
 FILING DATE: 19921105  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Murphy Jr., Gerald M.  
 REGISTRATION NUMBER: 28,977  
 REFERENCE/DOCKET NUMBER: 1110-124P  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 703-241-1300  
 TELEFAX: 703-241-2848  
 TELEX: 248345  
 INFORMATION FOR SEQ ID NO: 40:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 68 amino acids

TYPE: AMINO ACID  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHEICAL: NO  
FRAGMENT TYPE: C-terminal  
ORIGINAL SOURCE:  
ORGANISM: Eschericia coli  
US-07-972-387-40

Query Match 32.0%; Score 100.5; DB 1; Length 68;  
Best Local Similarity 36.5%; Pred. No. 2.9e-05;  
Matches 19; Conservative 9; Mismatches 21; Indels 3; Gaps 1;

QY 2 LPDVACGTGPTSPHLVLMHYDPQRGCMTFPARGCDGARGFETYEACQAC 53  
DB 5 LPIVE---GPCRAFTKLMFADAVKGCVLFPYGGCGGNGNKFESKECREYC 53

RESULT 10  
US-08-431-412-37

; Sequence 37, Application US/08431412  
; Patent No. 5589360

; GENERAL INFORMATION:

; APPLICANT: Morishita, Hideaki

; APPLICANT: Kanamori, Toshinori

; APPLICANT: No. 5589360uhara, Masahiro

; TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the

; TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for

; NUMBER OF SEQUENCES: 76

; CURRENT APPLICATION DATA:

; ADDRESS: Birch, Stewart, Kolasch & Birch

; STREET: 301 N. Washington St.

; CITY: Falls Church

; STATE: Virginia

; COUNTRY: USA

; ZIP: 22046-0747

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/431.412

; FILING DATE: 28-APR-1995

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/972,387

; FILING DATE: 05-NOV-1992

; ATTORNEY/AGENT INFORMATION:

; NAME: Murphy Jr., Gerald M.

; REGISTRATION NUMBER: 28,977

; REFERENCE/DOCKET NUMBER: 1110-124P

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 703-241-1300

; TELEFAX: 703-241-2848

; TELEX: 248345

; INFORMATION FOR SEQ ID NO: 37:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 68 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; HYPOTHEICAL: NO

; FRAGMENT TYPE: C-terminal

; ORIGINAL SOURCE:

; ORGANISM: Eschericia coli

; US-08-431-412-37

Query Match 32.0%; Score 100.5; DB 1; Length 68;  
Best Local Similarity 36.5%; Pred. No. 2.9e-05;  
Matches 19; Conservative 9; Mismatches 21; Indels 3; Gaps 1;

QY 2 LPDVACGTGPTSPHLVLMHYDPQRGCMTFPARGCDGARGFETYEACQAC 53  
DB 5 LPIVE---GPCRAFTKLMFADAVKGCVLFPYGGCGGNGNKFESKECREYC 53

RESULT 11  
US-08-431-412-40

; Sequence 40, Application US/08431412  
; Patent No. 5589360

; GENERAL INFORMATION:

; APPLICANT: Morishita, Hideaki

; APPLICANT: Kanamori, Toshinori

; APPLICANT: No. 5589360uhara, Masahiro

; TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the

; TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for

; NUMBER OF SEQUENCES: 76

; CURRENT APPLICATION DATA:

; ADDRESS: Birch, Stewart, Kolasch & Birch

; STREET: 301 N. Washington St.

; CITY: Falls Church

; STATE: Virginia

; COUNTRY: USA

; ZIP: 22046-0747

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/431.412

; FILING DATE: 28-APR-1995

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 07/972,387

; FILING DATE: 05-NOV-1992

; ATTORNEY/AGENT INFORMATION:

; NAME: Murphy Jr., Gerald M.

; REGISTRATION NUMBER: 28,977

; REFERENCE/DOCKET NUMBER: 1110-124P

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 703-241-1300

; TELEFAX: 703-241-2848

; TELEX: 248345

; INFORMATION FOR SEQ ID NO: 40:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 68 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; HYPOTHEICAL: NO

; FRAGMENT TYPE: C-terminal

; ORIGINAL SOURCE:

; ORGANISM: Eschericia coli

; US-08-431-412-40

Query Match 32.0%; Score 100.5; DB 1; Length 68;  
Best Local Similarity 36.5%; Pred. No. 2.9e-05;  
Matches 19; Conservative 9; Mismatches 21; Indels 3; Gaps 1;

QY 2 LPDVACGTGPTSPHLVLMHYDPQRGCMTFPARGCDGARGFETYEACQAC 53  
DB 5 LPIVE---GPCRAFTKLMFADAVKGCVLFPYGGCGGNGNKFESKECREYC 53

RESULT 12  
US-08-057-971-37

; Sequence 37, Application US/08057971  
; Patent No. 5679770

; GENERAL INFORMATION:

; APPLICANT: Morishita, Hideaki

; APPLICANT: Kanamori, Toshinori

; APPLICANT: No. 5679770uhara, Masahiro

;; TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the  
;; TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for  
;; TITLE OF INVENTION: Producing the Same  
;; NUMBER OF SEQUENCES: 81  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Birch, Stewart, Kolasch & Birch  
;; STREET: P.O. Box 747  
;; CITY: Falls Church  
;; STATE: Virginia  
;; COUNTRY: USA  
;; ZIP: 22040-0747  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/057,971  
;; FILING DATE: 06-MAY-1993  
;; CLASSIFICATION: 435  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Murphy Jr., Gerald M.  
;; REGISTRATION NUMBER: 28,977  
;; REFERENCE/DOCKET NUMBER: 1110-129P  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 703-205-8000  
;; TELEFAX: 703-205-8050  
;; TELEX:  
;; INFORMATION FOR SEQ ID NO: 37:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 68 amino acids  
;; TYPE: amino acid  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
;; HYPOTHEICAL: NO  
;; FRAGMENT TYPE: C-terminal  
;; ORIGINAL SOURCE:  
;; ORGANISM: Eschericia coli  
;; US-08-057-971-37

Query Match 32.0%; Score 100.5; DB 1; Length 68;  
Best Local Similarity 36.5%; Pred. No. 2.9e-05;  
Matches 19; Conservative 9; Mismatches 21; Indels 3; Gaps 1;

QY 2 LPDVQACTGPTSPHLVLMHYDPQGGCTTPARCGDGAAGFEYEAQQAC 53  
DB 5 LPVQ--GPCRAFIKIMAFDAVKGCVLFPYGGCGNGNKFSEKRECYC 53

RESULT 13  
US-08-057-971-40  
;; Sequence 40, Application US/08057971  
;; Patent No. 5679770  
;; GENERAL INFORMATION:  
;; APPLICANT: Morishita, Hideaki  
;; APPLICANT: Kanamori, Toshinori  
;; APPLICANT: No. 5679770uhara, Masahiro  
;; TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the  
;; TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for  
;; NUMBER OF SEQUENCES: 81  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Birch, Stewart, Kolasch & Birch  
;; STREET: P.O. Box 747  
;; CITY: Falls Church  
;; STATE: Virginia  
;; COUNTRY: USA  
;; ZIP: 22040-0747  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.25

;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/057,971  
;; FILING DATE: 06-MAY-1993  
;; CLASSIFICATION: 435  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Murphy Jr., Gerald M.  
;; REGISTRATION NUMBER: 28,977  
;; REFERENCE/DOCKET NUMBER: 1110-129P  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 703-205-8000  
;; TELEFAX: 703-205-8050  
;; TELEX:  
;; INFORMATION FOR SEQ ID NO: 40:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 68 amino acids  
;; TYPE: amino acid  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
;; HYPOTHEICAL: NO  
;; FRAGMENT TYPE: C-terminal  
;; ORIGINAL SOURCE:  
;; ORGANISM: Eschericia coli  
;; US-08-057-971-40

Query Match 32.0%; Score 100.5; DB 1; Length 68;  
Best Local Similarity 36.5%; Pred. No. 2.9e-05;  
Matches 19; Conservative 9; Mismatches 21; Indels 3; Gaps 1;

QY 2 LPDVQACTGPTSPHLVLMHYDPQGGCTTPARCGDGAAGFEYEAQQAC 53  
DB 5 LPVQ--GPCRAFIKIMAFDAVKGCVLFPYGGCGNGNKFSEKRECYC 53

RESULT 14  
US-07-972-387-10  
;; Sequence 10, Application US/07972387  
;; Patent No. 5451659  
;; GENERAL INFORMATION:  
;; APPLICANT: Morishita, Hideaki  
;; APPLICANT: Kanamori, Toshinori  
;; APPLICANT: No. 5451659uhara, Masahiro  
;; TITLE OF INVENTION: Polypeptide, DNA Fragment Encoding the  
;; TITLE OF INVENTION: Same, Drug Composition Containing the Same and Process for  
;; NUMBER OF SEQUENCES: 76  
;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: Birch, Stewart, Kolasch & Birch  
;; STREET: 301 N. Washington St.  
;; CITY: Falls Church  
;; STATE: Virginia  
;; COUNTRY: USA  
;; ZIP: 22046-0747  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: Floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: PatentIn Release #1.0, Version #1.25  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/07/972,387  
;; FILING DATE: 19921105  
;; CLASSIFICATION: 435  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: Murphy Jr., Gerald M.  
;; REGISTRATION NUMBER: 28,977  
;; REFERENCE/DOCKET NUMBER: 1110-124P  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 703-241-1300  
;; TELEFAX: 703-241-2848  
;; TELEX: 248345  
;; INFORMATION FOR SEQ ID NO: 10:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 89 amino acids  
;; TYPE: AMINO ACID





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GenCore version 5.1.3  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 20, 2003, 08:09:37 : Search time 33.6832 Seconds

(Without alignments)  
478.688 Million cell updates/sec

Title: US-09-819-136-2

Perfect score: 3016  
Sequence: 1 MPALRPLPLLLRLTSGA.....KRIELLEKQACELNRFQD 548

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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4: /cgn2\_6/ptodata/1/laa/6B.COMB.pep:\*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	358	11.9	59	US-09-388-183-2	Sequence 2, Appl 1
2	213	7.1	143	US-08-422-333-10	Sequence 10, Appl 1
3	213	7.1	143	5223482-20	Patent No. 5223482
4	213	7.1	144	5187153-18	Patent No. 5187153
5	213	7.1	147	US-08-358-160-72	Sequence 72, Appl 1
6	210	7.0	123	5466783-22	Patent No. 5466783
7	208	6.9	122	5466783-21	Patent No. 5466783
8	207	6.9	122	US-08-422-333-12	Sequence 12, Appl 1
9	207	6.9	122	5187153-20	Patent No. 5187153
10	207	6.9	122	5220013-23	Patent No. 5220013
11	207	6.9	127	5466783-24	Patent No. 5466783
12	206	6.8	122	5223482-22	Patent No. 5223482
13	200.5	6.6	122	5466783-23	Patent No. 5466783
14	196	6.5	213	5466783-25	Patent No. 5466783
15	194.5	6.4	276	US-07-828-920A-1	Sequence 1, Appl 1
16	194.5	6.4	276	US-08-437-841-9	Sequence 9, Appl 1
17	194.5	6.4	276	US-08-286-521-9	Sequence 9, Appl 1
18	194.5	6.4	276	US-08-436-175-9	Sequence 9, Appl 1
19	194.5	6.4	276	US-08-796-850-1	Sequence 1, Appl 1
20	194.5	6.4	276	US-08-854-764-3	Sequence 3, Appl 1
21	194.5	6.4	276	US-08-943-682-9	Sequence 9, Appl 1
22	194.5	6.4	276	PCT-US95-09377-3	Sequence 3, Appl 1
23	194.5	6.4	276	PCT-US95-09464-9	Sequence 9, Appl 1
24	194.5	6.4	277	US-07-844-297-1	Sequence 1, Appl 1
25	194.5	6.4	304	US-08-026-145-2	Sequence 2, Appl 1
26	194.5	6.4	304	US-08-446-646-9	Sequence 9, Appl 1
27	194.5	6.4	304	US-08-676-125A-18	Sequence 18, Appl 1

28	194.5	6.4	304	2	US-09-136-012A-18	Sequence 18, Appl 1
29	194.5	6.4	304	3	US-08-676-124-1	Sequence 1, Appl 1
30	194.5	6.4	304	3	US-08-208-264A-25	Sequence 25, Appl 1
31	194.5	6.4	304	3	US-09-414-878-1	Sequence 1, Appl 1
32	194.5	6.4	304	3	US-09-240-136-1	Sequence 1, Appl 1
33	194.5	6.4	304	4	US-09-054-782-2	Sequence 2, Appl 1
34	194.5	6.4	304	4	US-09-421-097-25	Sequence 25, Appl 1
35	194.5	6.4	304	4	US-09-638-770A-1	Sequence 1, Appl 1
36	194.5	6.4	304	6	5466783-2	Patent No. 5466783
37	194.5	6.4	352	3	US-08-854-764-2	Sequence 3, Appl 1
38	194.5	6.4	352	5	PCT-US95-09377-2	Sequence 2, Appl 1
39	192	6.4	252	1	US-08-685-660A-7	Sequence 7, Appl 1
40	192	6.4	252	2	US-08-974-196-7	Sequence 7, Appl 1
41	192	6.4	252	4	US-09-071-709-10	Sequence 10, Appl 1
42	192	6.4	252	4	US-09-013-896A-2	Sequence 2, Appl 1
43	179.5	6.0	235	1	US-08-147-710-2	Sequence 2, Appl 1
44	179.5	6.0	235	1	US-08-458-090-2	Sequence 2, Appl 1
45	179.5	6.0	235	2	US-08-457-887-2	Sequence 2, Appl 1

## ALIGNMENTS

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RESULT 1
US-09-388-183-2
; Sequence 2, Application US/09388183
; Patent No. 6380354
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN6
; FILE REFERENCE: 98-40
; CURRENT APPLICATION NUMBER: US/09/388,183
; CURRENT FILING DATE: 1999-09-01
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-388-183-2

Query Match      11.9%: Score 358; DB 4; Length 59;
Best Local Similarity 100.0%; Pred. No. 3.5e-17;
Matches 59; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      354  GPGDACYLPAVQGPCRGMEPRMAYSPLLQOCHPEVYGGCEGNGNMFHSRSCEDACVPV 412
DB      1    GPGDACYLPAVQGPCRGMEPRMAYSPLLQOCHPEVYGGCEGNGNMFHSRSCEDACVPV 59

RESULT 2
US-08-422-333-10
; Sequence 10, Application US/08422333
; Patent No. 5912410
; GENERAL INFORMATION:
; APPLICANT: CORDELL, Barbara L.
; TITLE OF INVENTION: TRANSGENIC NON-HUMAN MAMMAL DISPLAYING
; TITLE OF INVENTION: THE AMYLOID-FORMING PATHOLOG OF ALZHEIMER'S DISEASE
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Scios, Inc.
; STREET: 2450 Bayshore Parkway
; CITY: Mountain View
; STATE: CA
; COUNTRY: USA
; ZIP: 94043
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/422,333
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FILING DATE: 13-APR-1995  
 CLASSIFICATION: 800  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Shearer, Peter R.  
 REGISTRATION NUMBER: 28,117  
 REFERENCE/DOCKET NUMBER: 21900-28048.00  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415) 966-1550  
 TELEFAX: (415) 968-2438  
 INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 143 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 US-08-422-333-10

Query Match 7.1%; Score 213; DB 2; Length 143;  
 Best Local Similarity 39.3%; Pred. No. 2.8e-07;  
 Matches 42; Conservative 13; Mismatches 46; Indels 6; Gaps 2;

QY 306 CTGPTSPHLVLMHYDPQRCGCMTPFARGCDGAARGFETYEACQACARGDACPVP 365  
 DB 35 CCMGTSRFF---YNGTSNACETFOYGGCMGNNGNMFVTEKECLQTCRTVA--ACNLPVIR 88  
 QY 366 GPCRGWEPRAWYSPLLQOCHPFYGGCEGNGNMFHRESCEDACPVP 412  
 DB 89 GPCRAFIQLMAFDVAKGKCVLPFYGGCGNGNKFYSKEKREYCGVP 135

RESULT 3  
 5223482-20  
 Patent No. 5223482  
 APPLICANT: SCHILLING, JAMES W.;PONTE, PHYLLIS A.;CORDELL,  
 BARBARA  
 TITLE OF INVENTION: RECOMBINANT ALZHEIMER'S PROTEASE  
 INHIBITORY AMYLOID PROTEIN AND METHOD OF USE  
 NUMBER OF SEQUENCES: 34  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/07/361,912  
 FILING DATE: 06-JUN-1989  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 359,911  
 FILING DATE: 12-MAY-1989  
 APPLICATION NUMBER: 87,002  
 FILING DATE: 18-AUG-1987  
 APPLICATION NUMBER: 8,810  
 FILING DATE: 30-JAN-1987  
 APPLICATION NUMBER: 948,376  
 FILING DATE: 31-DEC-1986  
 APPLICATION NUMBER: 932,193  
 FILING DATE: 17-NOV-1986  
 SEQ ID NO: 20:  
 LENGTH: 143  
 5223482-20

Query Match 7.1%; Score 213; DB 6; Length 143;  
 Best Local Similarity 39.3%; Pred. No. 2.8e-07;  
 Matches 42; Conservative 13; Mismatches 46; Indels 6; Gaps 2;

QY 306 CTGPTSPHLVLMHYDPQRCGCMTPFARGCDGAARGFETYEACQACARGDACPVP 365  
 DB 35 CCMGTSRFF---YNGTSNACETFOYGGCMGNNGNMFVTEKECLQTCRTVA--ACNLPVIR 88  
 QY 366 GPCRGWEPRAWYSPLLQOCHPFYGGCEGNGNMFHRESCEDACPVP 412  
 DB 89 GPCRAFIQLMAFDVAKGKCVLPFYGGCGNGNKFYSKEKREYCGVP 135

RESULT 4  
 5187153-18  
 Patent No. 5187153  
 APPLICANT: CORDELL, BARBARA;SCHILLING, JAMES W.;KATUNUMA, NOBUHIKO

TITLE OF INVENTION: METHODS OF TREATMENT USING ALZHEIMER'S  
 AMYLOID POLYPEPTIDE DERIVATIVES  
 NUMBER OF SEQUENCES: 33  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/07/502,273  
 FILING DATE: 29-MAR-1990  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 361,912  
 FILING DATE: 06-JUN-1989  
 APPLICATION NUMBER: 359,911  
 FILING DATE: 12-MAY-1989  
 APPLICATION NUMBER: 87,002  
 FILING DATE: 18-AUG-1987  
 APPLICATION NUMBER: 8,810  
 FILING DATE: 30-JAN-1987  
 APPLICATION NUMBER: 948,376  
 FILING DATE: 31-DEC-1986  
 APPLICATION NUMBER: 932,193  
 FILING DATE: 17-NOV-1986  
 SEQ ID NO: 18:  
 LENGTH: 144  
 5187153-18

Query Match 7.1%; Score 213; DB 6; Length 144;  
 Best Local Similarity 39.3%; Pred. No. 2.9e-07;  
 Matches 42; Conservative 13; Mismatches 46; Indels 6; Gaps 2;

QY 306 CTGPTSPHLVLMHYDPQRCGCMTPFARGCDGAARGFETYEACQACARGDACPVP 365  
 DB 35 CCMGTSRFF---YNGTSNACETFOYGGCMGNNGNMFVTEKECLQTCRTVA--ACNLPVIR 88  
 QY 366 GPCRGWEPRAWYSPLLQOCHPFYGGCEGNGNMFHRESCEDACPVP 412  
 DB 89 GPCRAFIQLMAFDVAKGKCVLPFYGGCGNGNKFYSKEKREYCGVP 135

RESULT 5  
 US-08-358-160-72  
 Sequence 72, Application US/08358160  
 Patent No. 5663143  
 GENERAL INFORMATION:  
 APPLICANT: LEY, Arthur C.  
 APPLICANT: LADNER, Robert C.  
 APPLICANT: GUTERMAN, Sonia K.  
 APPLICANT: ROBERTS, Bruce L.  
 APPLICANT: MARKLAND, William  
 APPLICANT: KENT, Rachel B.  
 TITLE OF INVENTION: ENGINEERED HUMAN-DERIVED KUNITZ  
 NUMBER OF SEQUENCES: 234  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: BROWDY AND NEIMARK  
 STREET: 419 Seventh Street, N.W. Suite 300  
 CITY: Washington  
 STATE: District of Columbia  
 COUNTRY: USA  
 ZIP: 20004  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/358,160  
 FILING DATE: 16-DEC-1994  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/133,031  
 FILING DATE: 13-OCT-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/009,319  
 FILING DATE: 26-JAN-1993  
 PRIOR APPLICATION DATA:

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? APPLICATION NUMBER: US 07/664,989
? FILING DATE: 01-MAR-1991
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/487,063
? FILING DATE: 02-MAR-1990
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 07/240,160
? FILING DATE: 02-SEP-1988
? ATTORNEY/AGENT INFORMATION:
? NAME: Cooper, Iver P.
? REGISTRATION NUMBER: 28,005
? REFERENCE/DOCKET NUMBER: LEY-1
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: 202-628-5197
? TELEFAX: 202-737-3528
? TELEX: 248633
? INFORMATION FOR SEQ ID NO: 72:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 147 amino acids
? TYPE: amino acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: protein
? US-08-358-160-72

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Query Match 6.9%; Score 207; DB 2; Length 122;  
Best Local Similarity 38.1%; Pred. No. 5.9e-07;  
Matches 40; Conservative 16; Mismatches 47; Indels 2; Gaps 1;

QY 308 GPTSPHLVLMHYDPQGGCMTPFARGCDGAARGFETYEACQACARGPDACVLPAYG 367  
DB 12 GPCGLIFKRFYNGTSMACETFLYGCGMGNLNFLSQKECQOTCR--TVEACNLPYVGP 69

QY 368 CRGMEPRMAYSPLLQOCHPEFYGGCEGNGNMFHRSRESCDACPVP 412  
DB 70 CRAFTQMAFDVAVKGCVRFSYGGCKGNKRFYSQKECKEYCGIP 114

RESULT 9  
5187153-20  
Patent No. 5187153  
APPLICANT: CORDELL, BARBARA; SCHILLING, JAMES W.; KATUNUMA, NOBUHIKO  
TITLE OF INVENTION: METHODS OF TREATMENT USING ALZHEIMER'S  
AMYLOID POLYPEPTIDE DERIVATIVES  
NUMBER OF SEQUENCES: 33  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/502,273  
FILING DATE: 29-MAR-1990  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 361,912  
FILING DATE: 06-JUN-1989  
APPLICATION NUMBER: 359,911  
FILING DATE: 12-MAY-1989  
APPLICATION NUMBER: 87,002  
FILING DATE: 18-AUG-1987  
APPLICATION NUMBER: 8,810  
FILING DATE: 30-JAN-1987  
APPLICATION NUMBER: 948,376  
FILING DATE: 31-DEC-1986  
APPLICATION NUMBER: 932,193  
FILING DATE: 17-NOV-1986  
SEQ ID NO: 20;  
LENGTH: 122  
5187153-20

Query Match 6.9%; Score 207; DB 6; Length 122;  
Best Local Similarity 38.1%; Pred. No. 5.9e-07;  
Matches 40; Conservative 16; Mismatches 47; Indels 2; Gaps 1;

QY 308 GPTSPHLVLMHYDPQGGCMTPFARGCDGAARGFETYEACQACARGPDACVLPAYG 367  
DB 12 GPCGLIFKRFYNGTSMACETFLYGCGMGNLNFLSQKECQOTCR--TVEACNLPYVGP 69

QY 368 CRGMEPRMAYSPLLQOCHPEFYGGCEGNGNMFHRSRESCDACPVP 412  
DB 70 CRAFTQMAFDVAVKGCVRFSYGGCKGNKRFYSQKECKEYCGIP 114

RESULT 10  
5220013-23  
Patent No. 5220013  
APPLICANT: PONTE, PHYLLIS A.; CORDELL, BARBARA  
TITLE OF INVENTION: DNA SEQUENCE USEFUL FOR THE DETECTION  
OF ALZHEIMER'S DISEASE  
NUMBER OF SEQUENCES: 30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/444,118  
FILING DATE: 30-NOV-1989  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 87,002  
FILING DATE: 18-AUG-1987  
APPLICATION NUMBER: 8,810  
FILING DATE: 30-JAN-1987  
APPLICATION NUMBER: 948,376  
FILING DATE: 31-DEC-1986  
APPLICATION NUMBER: 932,193  
FILING DATE: 17-NOV-1986  
SEQ ID NO: 23;

LENGTH: 122  
5220013-23

Query Match 6.9%; Score 207; DB 6; Length 122;  
Best Local Similarity 38.1%; Pred. No. 5.9e-07;  
Matches 40; Conservative 16; Mismatches 47; Indels 2; Gaps 1;

QY 308 GPTSPHLVLMHYDPQGGCMTPFARGCDGAARGFETYEACQACARGPDACVLPAYG 367  
DB 12 GPCGLIFKRFYNGTSMACETFLYGCGMGNLNFLSQKECQOTCR--TVEACNLPYVGP 69

QY 368 CRGMEPRMAYSPLLQOCHPEFYGGCEGNGNMFHRSRESCDACPVP 412  
DB 70 CRAFTQMAFDVAVKGCVRFSYGGCKGNKRFYSQKECKEYCGIP 114

RESULT 11  
5466783-24  
Patent No. 5466783  
APPLICANT: Wun, Tze-Chen.; Kretzner, Kuniko K.; Broze,  
George J. Jr.  
TITLE OF INVENTION: HUMAN TISSUE FACTOR INHIBITOR  
NUMBER OF SEQUENCES: 26  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/93,285  
FILING DATE: 15-JUL-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 566,280  
FILING DATE: 13-AUG-1990  
APPLICATION NUMBER: 123,753  
FILING DATE: 23-NOV-1987  
APPLICATION NUMBER: 77,366  
FILING DATE: 23-JUL-1987  
SEQ ID NO: 24;  
LENGTH: 127  
5466783-24

Query Match 6.9%; Score 207; DB 6; Length 127;  
Best Local Similarity 40.4%; Pred. No. 6.2e-07;  
Matches 44; Conservative 12; Mismatches 45; Indels 8; Gaps 3;

QY 306 CTGPTSPHLVLMHYDPQGGCMTPFARGCDGAARGFETYEACQACARGPDACVLPAYG 365  
DB 14 CMGNTSRF---YNGTSMACETFLYGCGMGNLNFLTEKECQOTCTVA--ACNLPYV 67

QY 366 GPCGMEPRMAYSPLLQOCHPEFYGGCEGNGNMFHRSRESC--DACPVP 412  
DB 68 GPCRAFTQMAFDVAVKGCVRFLPYGGCGGNGNKFYSKECECREYCGVP 116

RESULT 12  
5223482-22  
Patent No. 5223482  
APPLICANT: SCHILLING, JAMES W.; PONTE, PHYLLIS A.; CORDELL,  
BARBARA  
TITLE OF INVENTION: RECOMBINANT ALZHEIMER'S PROTEASE  
INHIBITORY AMYLOID PROTEIN AND METHOD OF USE  
NUMBER OF SEQUENCES: 34  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/07/361,912  
FILING DATE: 06-JUN-1989  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 359,911  
FILING DATE: 12-MAY-1989  
APPLICATION NUMBER: 87,002  
FILING DATE: 18-AUG-1987  
APPLICATION NUMBER: 8,810  
FILING DATE: 30-JAN-1987  
APPLICATION NUMBER: 948,376  
FILING DATE: 31-DEC-1986  
APPLICATION NUMBER: 932,193  
FILING DATE: 17-NOV-1986  
SEQ ID NO: 22;

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;
; LENGTH: 122
5223482-22
Query Match          6.8%; Score 206; DB 6; Length 122;
Best Local Similarity 39.6%; Pred. No. 6.9e-07;
Matches 38; Conservative 16; Mismatches 40; Indels 2; Gaps 1;

Oy 317 WHYDORGGCMTEFPARGCDGAARGFETYEACQACARGPDACVLPVAGPCRGMEPRMA 376
   : | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 23 YVNGTSMACETFLXGCGGNLNNFLSQKCECQTCR--TVEACNLPYVGGPCRAFTQLMA 80

Oy 377 VSPLLQOCHPEFYVGGCEGNGNNFHSRESCEDACVPV 412
   : | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 81 FDAVKGKCVRFSGCGCKGNKNKFYSQKECKEYCGIP 116

RESULT 13
546783-23
; Patent No. 5466783
; APPLICANT: Mun, Tze-Chen.; Kretzmer, Kuniko K.; Broze,
; George J. Jr.
; TITLE OF INVENTION: HUMAN TISSUE FACTOR INHIBITOR
; NUMBER OF SEQUENCES: 26
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/93,285
; FILING DATE: 15-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 566,280
; FILING DATE: 13-AUG-1990
; APPLICATION NUMBER: 123,753
; FILING DATE: 23-NOV-1987
; APPLICATION NUMBER: 77,366
; FILING DATE: 23-JUL-1987
; SEQ ID NO:23
; LENGTH: 122
546783-23

Query Match          6.6%; Score 200.5; DB 6; Length 122;
Best Local Similarity 38.1%; Pred. No. 1.6e-06;
Matches 40; Conservative 16; Mismatches 46; Indels 3; Gaps 2;

Oy 308 GPTSPHLVLMHYDPQRCGCMTEFPARGCDGAARGFETYEACQACARGPDACVLPVAGSP 367
   || | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 12 GCGCLGFKRYFYNGTSMACETE-LGCGMGNLNNFLSQKCECQTCR--TVEACNLPYVGGP 68

Oy 368 CGMEPRMAYSPLLQOCHPEFYVGGCEGNGNNFHSRESCDACPVP 412
   || | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 69 CRAFTQLMAFDAYKGVKCVRFSGCGCKGNKNKFYSQKECKEYCGIP 113

RESULT 14
546783-25
; Patent No. 5466783
; APPLICANT: Mun, Tze-Chen.; Kretzmer, Kuniko K.; Broze,
; George J. Jr.
; TITLE OF INVENTION: HUMAN TISSUE FACTOR INHIBITOR
; NUMBER OF SEQUENCES: 26
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/93,285
; FILING DATE: 15-JUL-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 566,280
; FILING DATE: 13-AUG-1990
; APPLICATION NUMBER: 123,753
; FILING DATE: 23-NOV-1987
; APPLICATION NUMBER: 77,366
; FILING DATE: 23-JUL-1987
; SEQ ID NO:25
; LENGTH: 213
546783-25

Query Match          6.5%; Score 196; DB 6; Length 213;
Best Local Similarity 30.2%; Pred. No. 5.6e-06;

Matches 49; Conservative 20; Mismatches 59; Indels 34; Gaps 5;

Oy 263 CTARNAAGILRADPFLSVQREPARDAAPSIAPAECL--PDVQACTGPTSPHLVLMHYD 320
   || | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 58 CTRDANANRIK-----TTLQOE-----KPDFCFLEBDPGICRG---YITRYFYN 98

Oy 321 PORGCMTEFPARGCDGAARGFETYEACQACARGP-----DACVLPVAGSP 367
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 99 NOTKCCERKRYGCGCLCNMNNFETLECKNICEGDRNGVDYGFHGRPSWCLTRADKGL 158

Oy 368 CGMEPRMAYSPLLQOCHPEFYVGGCEGNGNNFHSRESCEDAC 409
   || | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 159 CHANENRFYNSVIGKCRPFKYSGCGGNENFTSKOECLIRAC 200

RESULT 15
US-07-828-920A-1
; Sequence 1, Application US/07828920A
; Patent No. 5312736
; GENERAL INFORMATION:
; APPLICANT: Rasmussen, Jasper
; APPLICANT: No. 5312736dfang, Ole Juul
; TITLE OF INVENTION: Anticoagulant Protein
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 5312736o No. 5312736disk of No. 5312736th America, Inc.
; STREET: 405 Lexington Avenue, Suite 6200
; CITY: New York
; STATE: New York
; COUNTRY: United States of America
; ZIP: 10174-6201
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/828,920A
; FILING DATE: 19920127
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: DK 4080/89
; FILING DATE: 18-AUG-1989
; APPLICATION NUMBER: WO PCT/DK90/00212
; FILING DATE: 17AUG1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Zelson, Steve T.
; REGISTRATION NUMBER: 30335
; REFERENCE/DOCKET NUMBER: 3287, 204-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212 867 0123
; TELEFAX: 212 867 0298
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 276 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..276
; US-07-828-920A-1

Query Match          6.4%; Score 194.5; DB 1; Length 276;
Best Local Similarity 27.3%; Pred. No. 9.3e-06;
Matches 50; Conservative 20; Mismatches 56; Indels 55; Gaps 5;

Oy 263 CTARNAAGILRADPFLSVQREPARDAAPSIAPAECL--PDVQACTGPTSPHLVLMHYD 320
   || | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 76 CTRDANANRIK-----TTLQOE-----KPDFCFLEBDPGICRG---YITRYFYN 116
```

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QY 321 PORGGMTFPARGCDGAARGFETYEACOOACARGP----- 356
Db 117 NOTKOCERPKYGGCIGNMNNEFTLEBCKNICEDGPRNGFOVDNYGTQLNAVNNSLTPQSTK 176
QY 357 -----DACVLPAVQGPCRGWEPRAWAYSPLLOCHPFVYGGCEGNGNMFHSRESCE 406
Db 177 VPSPLEFHGSPSWCLTPADRLCRRANENRPFYNSVIGKCRPFKYSGGCGNENNFTSKQECI 236
QY 407 DAC 409
Db 237 RAC 239

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Search completed: February 20, 2003, 08:22:26  
 Job time : 35.6832 secs



Qy	1	MPARPLPLLLRLRISGALLPGLISHPVCNOLSPNLMVDAOSTCEBESRRDDCA	60
Db	1	MPARPLPLPLRLRLRISGALLPGLISHPVCNOLSPNLMVDAOSTCEBESRRDDCA	60
Qy	61	AAEKCCINWCGISHCSVAARFPGSPAAPPTAAASCEGFPVCPQSGSDCDLMDGOPVCRCDRC	120
Db	61	AAEKCCINWCGISHCSVAARFPGSPAAPPTAAASCEGFPVCPQSGSDCDLMDGOPVCRCDRC	120
Qy	121	EKESFTCASGGLYYNRCYMDAACLRLGLHLIYVPCKHVLSMPPSSPGPETTARPTPG	180
Db	121	EKESFTCASGGLYYNRCYMDAACLRLGLHLIYVPCKHVLSMPPSSPGPETTARPTPG	180
Qy	181	AAAPVPALYSSPSPOAVOVGTAALSHCDVSGRPAPATYTWKESQSHORENLMRPMOMYGNV	240
Db	181	AAAPVPALYSSPSPOAVOVGTAALSHCDVSGRPAPATYTWKESQSHORENLMRPMOMYGNV	240
Qy	241	VVTSIGOLVILNARBEDAGLTYTCARNAAGLLRRADFPLSVYQREBPADAAPSIIPAECFL	300

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Db 241 VVTSIGOLVLYNARPEDEGLYTCIARNAGLIRADFPISVYQREBARAAPSIPAPACEL 300
QY 301 PDVQACTGPTSPHLVIMHYDPORGCGMTFPARCGDGAARGETFYACQOACARGGDVCY 360
Db 301 PDVQACTGPTSPHLVIMHYDPORGCGMTFPARCGDGAARGETFYACQOACARGGDVCY 360
QY 361 LPAVQPCRGMEPRMAYSPLLQOCHPFYVYGCEGNGNHFHRSCEDEACVPYPRPPCRAC 420
Db 361 LPAVQPCRGMEPRMAYSPLLQOCHPFYVYGCEGNGNHFHRSCEDEACVPYPRPPCRAC 420
QY 421 RLRSKLAISLCRSDPAIVGRLEVEEPEAAGIARVALEVLKDDKMKLFGTKYLEV 480
Db 421 RLRSKLAISLCRSDPAIVGRLEVEEPEAAGIARVALEVLKDDKMKLFGTKYLEV 480
QY 481 TLSGDMACPCPNMTAGDGPLVINGEVRDVAVLADAGSYRAASRYKLTLELLEKAC 540
Db 481 TLSGDMACPCPNMTAGDGPLVINGEVRDVAVLADAGSYRAASRYKLTLELLEKAC 540
QY 541 ELLNRFQD 548
Db 541 ELLNRFQD 548

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RESULT 2
US-09-794-589-2
; Sequence 2, Application US/09794589
; Patent No. US20020004224A1
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN8
; FILE REFERENCE: 00-01
; CURRENT APPLICATION NUMBER: US/09/794,589
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/186,069
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-794-589-2

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Query Match 54.9%; Score 1655; DB 10; Length 576;
Best Local Similarity 55.5%; Pred. No. 3.9e-82;
Matches 311; Conservative 77; Mismatches 146; Indels 26; Gaps 8;

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```

QY 7 LPLLLLRLLTSGAGLIPGIG-SHPGVCPLQSLPMLVNDASQTCERCSRDQCAAEK 65
Db 19 LLLLLLLGVPPRSALPPIRTYSHAGICPDMDNMLVNDASQTCRRCECTDQECETYEK 78
QY 66 CINVCGLHSCVAARF-----PGSPAPPTTAASGEFVCPQOQSGDSDIMDQPVRCRDRC 120
Db 79 CPNVCGTKSCVAARYMDVKKGGVMPKATGDHFMCLQDQSGCDIMDQPVRCRDRC 138
QY 121 EKESFTFCADGLTYTKRCMDAFCRLGHLHIVPCKHVLSPSSGPPETTARPTG 180
Db 139 EKESFTFCADGLTYTKRCMDAFCRLGHLHIVPCKHVLSPSSGPPETTARPTG 198
QY 181 AAPP-----PALYSSPSQAOVGGTASLHCDVSGRPAPYATWEKOSQNRLLIMRP 234
Db 199 SPETPELMDMAAPALINPVOASTMGCTVSFLCDVVGRRPETTWEKQLEDRVAVWRPN 258
QY 235 QMTGNVVVTISIGLVYNARPEDEGLYTCIARNAGLIRADFPISVYQREBARAAPSIP 294
Db 259 HVGNVVVTINIAQDLVINYNAQLODAGITYCTARNVAGVLRADFPISVYRGQAATSSSP 318
QY 295 -----APAECL--PDVQACTGPTSPHLVIMHYDPORGCGMTFPARCGDGAARGETYEAC 347
Db 319 NGTAPEAECLKPPDSDC-----GEQTRWHFDQAQANNCITLTFFGCHRNLMHFETYEAC 374
QY 348 QOACARPGDVCYLPAVQPCRGMEPRMAYSPLLQOCHPFYVYGCEGNGNHFHRSCEDE 407

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Db 375 MLACSGFLAACSLPALQGPCKAKAPRWATNSQGGQGSFYVYGCEGNGNHFREACEE 434
QY 408 ACPVPR--TPPCRRLSKLALSLCRSDPAIVGRLEVEEPEAAGIARVALEVLKDD 466
Db 435 SCPPRGNORCKAPROKLTSCRSDFVILIGVSELTEDPS--GRALTVDEVAKDE 492
QY 467 KMGKLFQGTXYLETLTSGMDACPCPNMTAGDGPLVINGEVRDVAVLADAGSYRAASEK 526
Db 493 KMGKLFQGTXYLETLTSGMDACPCPNMTAGDGPLVINGEVRDVAVLADAGSYRAASEK 552
QY 527 RVKRLLELEKQACELNRF 546
Db 553 RVKRLREVMHKKTCVDLKEF 572

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RESULT 3
US-10-021-963-2
; Sequence 2, Application US/10021963
; Patent No. US20020110887A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN6
; FILE REFERENCE: 98-40
; CURRENT APPLICATION NUMBER: US/10/021,963
; CURRENT FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: US/09/388,183
; PRIOR FILING DATE: 1999-09-01
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-021-963-2

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Query Match 11.9%; Score 358; DB 12; Length 59;
Best Local Similarity 100.0%; Pred. No. 1.8e-13;
Matches 59; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 354 GPDDACVLPVAVQPCRGMEPRMAYSPLLQOCHPFYVYGCEGNGNHFHRSCEDEACVP 412
Db 1 GPDDACVLPVAVQPCRGMEPRMAYSPLLQOCHPFYVYGCEGNGNHFHRSCEDEACVP 59
RESULT 4
US-09-925-301-1175
; Sequence 1175, Application US/09925301
; Patent No. US2002052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1175
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-925-301-1175

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Query Match 7.1%; Score 213; DB 10; Length 366;
Best Local Similarity 40.2%; Pred. No. 6e-05;
Matches 43; Conservative 12; Mismatches 46; Indels 6; Gaps 2;

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QY 306 CTGPTSPHLVIMHYDPORGCGMTFPARCGDGAARGETYEACQOACARPGDVCYLPAVQ 365

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Db 254 CWMGTSRYF-----YNGTSMACETFOYGGCGMNGNNFVTEKECLQTCRTVA--ACNLPIVR 307  
QY 366 GCGRGHEPRMAISPLLOQCHFPFYGGCEGNGNNFHSRESCEDACVP 412  
Db 308 GPCRAFIOLMAFDVAVKGCVLFPYGGCGGNGNKFYSEKREYCGVP 354

RESULT 5  
US-10-086-176A-5  
; Sequence 5, Application US/10086176A  
; Patent No. US20020173465A1  
; GENERAL INFORMATION:  
; APPLICANT: Hembrough, Todd  
; APPLICANT: Papathanassiou, Adonia E.  
; APPLICANT: Green, Shawn J.  
; TITLE OF INVENTION: Compositions and Methods for Inhibiting Cellular Proliferation CC  
; FILE REFERENCE: 05213-0296 43170-266780  
; CURRENT APPLICATION NUMBER: US/10/086,176A  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: US 09/766,778  
; PRIOR FILING DATE: 2001-01-22  
; PRIOR APPLICATION NUMBER: US 09/227,955  
; PRIOR FILING DATE: 1999-01-11  
; PRIOR APPLICATION NUMBER: US 08/796,850  
; PRIOR FILING DATE: 1997-02-06  
; PRIOR APPLICATION NUMBER: US 09/130,273  
; PRIOR FILING DATE: 1998-08-06  
; NUMBER OF SEQ ID NOS: 6  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 276  
; TYPE: PRT  
; ORGANISM: Artificial Sequence  
; FEATURE:  
; OTHER INFORMATION: Synthetic peptide  
US-10-086-176A-5

Query Match 6.4%; Score 194.5; DB 9; Length 276;  
Best Local Similarity 27.3%; Pred. No. 0.00045;  
Matches 50; Conservative 20; Mismatches 58; Indels 55; Gaps 5;

QY 263 CTARNAAGLLRADPFLSVQREPARDAAPSIPAPACL--PVOACTGTPTSHLVMHYD 320  
Db 76 CTRDNANRIIK-----TTLQOE-----KPDPCFLEEDPGICRG---YITRIFYN 116  
QY 321 PORGCMFPPARGCDGAARGFETYACQOACARGPG-----YITRIFYN 356  
Db 117 NOTKQCEFRKYGGCLGNMNMNFETLECKNICEDGPNGFVDNYGTQLNAVNSLTPQSTK 176  
QY 357 -----DACVLPAVQGPCRGMEPRKAYSPLLOQCHFPFYGGCEGNGNNFHSRESC 406  
Db 177 VPSLEFHPGSPWCLTPADRGICLRANENRPFYNSVIGKCRPFYSGCGGNNFTSKQEC 236

QY 407 DAC 409  
Db 237 RAC 239

RESULT 6  
US-09-741-106-9  
; Sequence 9, Application US/09741106  
; Publication No. US20020197667A1  
; GENERAL INFORMATION:  
; APPLICANT: Innis, Michael  
; APPLICANT: Creasey, Abia  
; TITLE OF INVENTION: Chimeric Proteins  
; NUMBER OF SEQUENCES: 37  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Chilton Corporation  
; STREET: 4560 Horton St.  
; CITY: Emeryville  
; STATE: CA

COUNTRY: USA  
ZIP: 94608  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30B  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/741,106  
FILING DATE: 12-Dec-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/286,521  
FILING DATE: 1994-08-05  
ATTORNEY/AGENT INFORMATION:  
NAME: Saveriede, Paul B.  
REGISTRATION NUMBER: 36,914  
REFERENCE/DOCKET NUMBER: 0990.001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 510-601-2585  
TELEFAX: 510-655-3542  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 276 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
US-09-741-106-9

Query Match 6.4%; Score 194.5; DB 9; Length 276;  
Best Local Similarity 27.3%; Pred. No. 0.00045;  
Matches 50; Conservative 20; Mismatches 58; Indels 55; Gaps 5;

QY 263 CTARNAAGLLRADPFLSVQREPARDAAPSIPAPACL--PVOACTGTPTSHLVMHYD 320  
Db 76 CTRDNANRIIK-----TTLQOE-----KPDPCFLEEDPGICRG---YITRIFYN 116  
QY 321 PORGCMFPPARGCDGAARGFETYACQOACARGPG-----YITRIFYN 356  
Db 117 NOTKQCEFRKYGGCLGNMNMNFETLECKNICEDGPNGFVDNYGTQLNAVNSLTPQSTK 176  
QY 357 -----DACVLPAVQGPCRGMEPRKAYSPLLOQCHFPFYGGCEGNGNNFHSRESC 406  
Db 177 VPSLEFHPGSPWCLTPADRGICLRANENRPFYNSVIGKCRPFYSGCGGNNFTSKQEC 236

QY 407 DAC 409  
Db 237 RAC 239

RESULT 7  
US-09-766-778-1  
; Sequence 1, Application US/09766778  
; Patent No. US20010018204A1  
; GENERAL INFORMATION:  
; APPLICANT: Papathanassiou, Adonia E.  
; APPLICANT: Green, Shawn J.  
; TITLE OF INVENTION: Compositions and Methods for Inhibiting  
; CELLULAR PROLIFERATION  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Jones & Askew  
; STREET: 191 Peachtree Street, 37th Floor  
; CITY: Atlanta  
; STATE: Georgia  
; COUNTRY: U.S.A.  
; ZIP: 30303  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/766,778  
FILING DATE: 22-Jan-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/227,955  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Greene, Jamie L.  
REGISTRATION NUMBER: 32,467  
REFERENCE/DOCKET NUMBER: 05213-0290  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (404) 818-3700  
TELEFAX: (404) 818-3799  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 276 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
MOLECULE TYPE: linear  
TOPOLOGY: linear  
HYDROTHERICAL: NO  
ANTI-SENSE: NO  
FRAGMENT TYPE: N-terminal  
ORIGINAL SOURCE:  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: Active-site  
LOCATION: 2..3  
OTHER INFORMATION: /note= "Site of partial phosphorylation"  
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NAME/KEY: Active-site  
LOCATION: 117..118  
OTHER INFORMATION: /note= "Potential site for N-linked glycosylation"  
FEATURE:  
NAME/KEY: Active-site  
LOCATION: 167..168  
OTHER INFORMATION: /note= "Potential site for N-linked glycosylation"  
FEATURE:  
NAME/KEY: Active-site  
LOCATION: 228..229  
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FEATURE:  
NAME/KEY: Domain  
LOCATION: 26..76  
OTHER INFORMATION: /label= Kuntlz-1  
FEATURE:  
NAME/KEY: Domain  
LOCATION: 97..147  
OTHER INFORMATION: /label= Kuntlz-2  
FEATURE:  
NAME/KEY: Domain  
LOCATION: 189..239  
OTHER INFORMATION: /label= Kuntlz-3  
SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
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Query Match 6.4%; Score 194.5; DB 10; Length 276;  
Best Local Similarity 27.3%; Pred. No. 0.00045;  
Matches 50; Conservative 20; Mismatches 58; Indels 55; Gaps 5;  
QY 263 CTARNAGLIRADPLSVQREPARDAAPSTPAPAEEL--PDVQACTGPTSPHLVIMHD 320  
DB 76 CTDNARIRK-----TTLOOE-----KPDFLEDEDPGICSG---YITRFYVN 116  
QY 321 PORGGCTFPARGCDGAARGFEYTEACQACARGPG----- 356  
DB 117 NOTKQCRFFYGGCLGMNMFLEBECKNICEDPGNGFOVDNTGTOLNAVNSLTPOSTK 176

QY 357 -----DACVLPAVQGPCRGWEPRWAYSPLLQOCHEPFYVGGCEGNGNHFHRSCE 406  
DB 177 VPSLFEFHGFSWCLTPADRGICRANENRFYNSVIGKCRPFKYSGCCGNGENFTSKQEC 236  
QY 407 DAC 409  
DB 237 RAC 239  
RESULT 8  
US-09-827-948-2  
Sequence 2, Application US/09827948  
Patent No. US20010029034A1  
GENERAL INFORMATION:  
APPLICANT: Gentz, Reiner, L.  
APPLICANT: Hsu, Tsu-An  
APPLICANT: Rosen, Craig A.  
APPLICANT: Ni, Jian  
TITLE OF INVENTION: Tissue Factor Pathway Inhibitor-3  
FILE REFERENCE: 1488,1290002  
CURRENT APPLICATION NUMBER: US/09/827,948  
CURRENT FILING DATE: 2001-04-06  
PRIOR APPLICATION NUMBER: US 09/013,896  
PRIOR FILING DATE: 1998-01-27  
NUMBER OF SEQ ID NOS: 31  
SOFTWARE: Patentin version 3.0  
SEQ ID NO 2  
LENGTH: 252  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-827-948-2  
Query Match 6.4%; Score 192; DB 10; Length 252;  
Best Local Similarity 28.5%; Pred. No. 0.00057;  
Matches 45; Conservative 13; Mismatches 54; Indels 46; Gaps 4;

QY 299 CLPDVQACTGPTSPHLVIMHDPORGCGMFPARGCGGAARGFEYTEACQAC----- 352  
DB 38 CL--VSKYVGRCAISMFRMYNTDSCQLFYVGGCGNSNNYLTRECKKCATYTENA 95  
QY 353 -----RGPGA-----CVLPAVQGPCRGWEPRWAYSP 381  
DB 96 TGLDATSRNADSSVSPAPRQDSEDSMDMYEEYCTANAVTGCRAISFPWYTDVER 155  
QY 382 QQCHPFYVGGCEGNGNHFHRSCEDAC-----FVP 412  
DB 156 NSCNFFLYGGCRGNKNSYRSEACMLRCFRQDENPLP 193  
RESULT 9  
US-09-808-602-48  
Sequence 48, Application US/09808602  
Patent No. US2002015115A1  
GENERAL INFORMATION:  
APPLICANT: Vernet, Corine A  
APPLICANT: Fernandes, Elma  
APPLICANT: Shinkets, Richard A  
APPLICANT: Herrman, John L  
APPLICANT: Majumder, Kumud  
APPLICANT: Mishra, Vishnu  
APPLICANT: Mezes, Peter S  
APPLICANT: MacDougall, John  
TITLE OF INVENTION: No. US2002015115A1el Proteins and Nucleic Acids Encoding Same  
FILE REFERENCE: 15966-697 CIP  
CURRENT APPLICATION NUMBER: US/09/808,602  
CURRENT FILING DATE: 2001-03-14  
PRIOR APPLICATION NUMBER: 09/800,198  
PRIOR FILING DATE: 2001-03-05  
PRIOR APPLICATION NUMBER: 60/186,596  
PRIOR FILING DATE: 2000-03-03  
NUMBER OF SEQ ID NOS: 114  
SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 48  
 LENGTH: 270  
 TYPE: PRT  
 ORGANISM: Mus musculus  
 US-09-808-602-48

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 Best Local Similarity 26.0%: Pred. No. 0.00061;  
 Matches 81; Conservative 24; Mismatches 138; Indels 68; Gaps 13;

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 DB 2 PLPLPLLLPLSLARGLGRDAGRHRPECSPCQQRCPAPSPCPAWISARBECE----- 55  
 QY 56 DDDCAAAEKCCTINVCSCVAAARFPFGSPAAPTAAASCGEFCPCQOQSCDIDWQGPVCR 115  
 DB 56 -----GCCARCLGAEASCGGPRVSGRCP-----GLVCASASAG-TAPEGGLCV 99  
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 DB 100 CAQR-----GAVCGSDGRSTSTCAIR---LRARH---APRAHGHLLKARDGPCE--- 144  
 QY 176 RPTGAPVPALYSSPSQAVQVGTASLHCDVSGRPPAVTWKQSHQ---RENILMR 232  
 DB 145 -----FAPVYLMPPRDIHNVGTQVFLSCVAKAVPTVITWKVKHSPSTEGLEEL 196  
 QY 233 PQMGNGVYVTSIG-----QLVLYN-ARPEDAGLYCTARNAAGLLRADFPPLSVOR 283  
 DB 197 PGD-HVNIAVQVRGSDHETTSWILINPLRKEDEGVYCHAAAMGAEGSHGTVYLDL 255  
 QY 284 EPARDAAPSP 294  
 DB 256 NRYKSLYSSVP 266

RESULT 10  
 US-09-925-301-1266  
 ; Sequence 1266, Application US/09925301  
 ; Patent No. US20020052308A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rosen et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
 ; FILE REFERENCE: PA106  
 ; CURRENT APPLICATION NUMBER: US/09/925,301  
 ; CURRENT FILING DATE: 2001-08-10  
 ; PRIOR APPLICATION NUMBER: PCT/US00/05882  
 ; PRIOR FILING DATE: 2000-03-08  
 ; PRIOR APPLICATION NUMBER: 60/124,270  
 ; PRIOR FILING DATE: 1999-03-12  
 ; NUMBER OF SEQ ID NOS: 1694  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 1266  
 ; LENGTH: 289  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-925-301-1266

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 Best Local Similarity 28.5%: Pred. No. 0.00065;  
 Matches 45; Conservative 13; Mismatches 54; Indels 46; Gaps 4;

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 DB 56 CL--VSKYVGRGRASHPRRWMTNTDSCQLFYGGCGDGSNNLTKEECLKCAITYENA 113  
 QY 353 -----RGPGDA-----CYLPAVQGPCRGMEPRMAYSPLL 381  
 DB 114 TGDLATSRNAADSVSPASARRODSEDDHSDMFNEYCYCTANNVITGCRASFRWYTDYER 173  
 QY 382 QOCHPFTVYGGCGEANGNHNFSRSCEDAC-----PVP 412  
 DB 174 NSCNNEIYGGCRGNKNSYRSEACMLRCFROQENPLP 211

RESULT 11  
 US-09-924-340-48  
 ; Sequence 48, Application US/09924340  
 ; Publication No. US20030027248A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bejani, Stephane  
 ; APPLICANT: Tanaka, Hiroaki  
 ; TITLE OF INVENTION: HUMAN CDNAs AND PROTEINS AND USES THEREOF  
 ; FILE REFERENCE: 91. US2. REG  
 ; CURRENT APPLICATION NUMBER: US/09/924,340  
 ; CURRENT FILING DATE: 2001-08-06  
 ; PRIOR APPLICATION NUMBER: US 60/305,456  
 ; PRIOR FILING DATE: 2001-07-13  
 ; PRIOR APPLICATION NUMBER: US 60/302,277  
 ; PRIOR FILING DATE: 2001-06-29  
 ; PRIOR APPLICATION NUMBER: US 60/298,698  
 ; PRIOR FILING DATE: 2001-06-15  
 ; PRIOR APPLICATION NUMBER: US 60/293,574  
 ; PRIOR FILING DATE: 2001-05-25  
 ; NUMBER OF SEQ ID NOS: 112  
 ; SOFTWARE: JPatent  
 ; SEQ ID NO 48  
 ; LENGTH: 291  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; FEATURE: SIGNAL  
 ; NAME/KEY: SIGNAL  
 ; LOCATION: 1..28  
 US-09-924-340-48

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 Best Local Similarity 41.7%: Pred. No. 0.0011;  
 Matches 35; Conservative 11; Mismatches 38; Indels 0; Gaps 0;

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 DB 79 CEFTFYGGCGEGNGNRRFSLBECKKMKTRKPCDFLEEDPGICRGYITRYFVNNQKCE 138  
 QY 386 PFTYGGCGEGNGNHNFSRSCEDAC 409  
 DB 139 RFTYGGCLGNMNFETLECKKNIC 162

RESULT 12  
 US-09-924-340-52  
 ; Sequence 52, Application US/09924340  
 ; Publication No. US20030027248A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bejani, Stephane  
 ; APPLICANT: Tanaka, Hiroaki  
 ; TITLE OF INVENTION: HUMAN CDNAs AND PROTEINS AND USES THEREOF  
 ; FILE REFERENCE: 91. US2. REG  
 ; CURRENT APPLICATION NUMBER: US/09/924,340  
 ; CURRENT FILING DATE: 2001-08-06  
 ; PRIOR APPLICATION NUMBER: US 60/305,456  
 ; PRIOR FILING DATE: 2001-07-13  
 ; PRIOR APPLICATION NUMBER: US 60/302,277  
 ; PRIOR FILING DATE: 2001-06-29  
 ; PRIOR APPLICATION NUMBER: US 60/298,698  
 ; PRIOR FILING DATE: 2001-06-15  
 ; PRIOR APPLICATION NUMBER: US 60/293,574  
 ; PRIOR FILING DATE: 2001-05-25  
 ; NUMBER OF SEQ ID NOS: 112  
 ; SOFTWARE: JPatent  
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 US-09-924-340-52

PRIOR APPLICATION NUMBER: US 09/924,340

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Db 18 EALGDAOEPTGNNAEICILPLDYGPCRALILRYYYDRYTQSCRQFLYGCEGNNANNEY 77

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401 SRESCDAC-PVPRPPCRACRLSKLALSLCRSDFAIVGRLEVELEEPAAGGIARVAL 459

Fri Feb 21 08:02:38 2003

us-09-819-136-2.feb20.rapp

Page 7

Db 78 TWACDCAACMIENV--KVCRLVSYDDCEGSTEYKFFNLSMTCEKFFSGGCHRNKI 135

Qy 460 EDVLRKDDKMGKLFGLTK 476

Db 136 ENRFDEATCMGFCAPK 152

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Job time : 23.6714 secs

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GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: February 20, 2003, 08:21:07 : Search time 2.19267 Seconds  
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617.553 Million cell updates/sec

Title: US-09-819-136-2\_COPY\_299\_351

Perfect score: 314  
Sequence: 1 CLPDVQACTGPTSPHLVLMH.....RCGDGARGFTYEACQAC 53

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 140259 seqs, 25548876 residues

Total number of hits satisfying chosen parameters: 140259

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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1: Published\_Applications\_AA:\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	314	100.0	548	10 US-09-819-136-2	Sequence 2, Appl1
2	108.5	34.6	576	10 US-09-794-589-2	Sequence 2, Appl1
3	94.5	30.1	366	10 US-09-825-301-1175	Sequence 1175, Ap
4	94	29.9	51	9 US-08-741-106-2	Sequence 2, Appl1
5	94	29.9	51	9 US-09-827-948-7	Sequence 7, Appl1
6	94	29.9	55	10 US-09-904-621-15	Sequence 15, Appl
7	94	29.9	83	9 US-10-125-258-37	Sequence 37, Appl
8	94	29.9	83	9 US-10-125-258-38	Sequence 38, Appl
9	94	29.9	213	9 US-10-086-176A-6	Sequence 6, Appl1
10	94	29.9	213	10 US-09-766-778-2	Sequence 2, Appl1
11	94	29.9	235	9 US-09-736-457-332	Sequence 332, App
12	94	29.9	235	9 US-09-902-941-332	Sequence 332, App
13	94	29.9	235	9 US-09-849-626-332	Sequence 332, App
14	94	29.9	235	10 US-09-904-621-2	Sequence 2, Appl1
15	92	29.3	55	10 US-09-864-761-33588	Sequence 33588, A
16	92	29.3	56	10 US-09-864-761-33763	Sequence 3763, A
17	92	29.3	751	10 US-09-794-927-57	Sequence 57, Appl
18	92	29.3	751	10 US-09-795-847-57	Sequence 57, Appl
19	92	29.3	751	10 US-09-794-743-57	Sequence 57, Appl

20	92	29.3	751	10 US-09-794-748-57	Sequence 57, Appl
21	92	29.3	751	10 US-09-794-925-57	Sequence 57, Appl
22	92	29.3	751	10 US-09-681-442-57	Sequence 57, Appl
23	92	29.3	751	10 US-09-149-718-4	Sequence 4, Appl1
24	92	29.3	753	10 US-09-794-927-61	Sequence 61, Appl
25	92	29.3	753	10 US-09-795-847-61	Sequence 61, Appl
26	92	29.3	753	10 US-09-794-743-61	Sequence 61, Appl
27	92	29.3	753	10 US-09-794-748-61	Sequence 61, Appl
28	92	29.3	753	10 US-09-794-925-61	Sequence 61, Appl
29	92	29.3	753	10 US-09-681-442-61	Sequence 61, Appl
30	92	29.3	770	9 US-09-785-215-2	Sequence 2, Appl1
31	92	29.3	770	10 US-09-794-927-55	Sequence 55, Appl
32	92	29.3	770	10 US-09-795-847-55	Sequence 55, Appl
33	92	29.3	770	10 US-09-794-743-55	Sequence 55, Appl
34	92	29.3	770	10 US-09-794-748-55	Sequence 55, Appl
35	92	29.3	770	10 US-09-804-987-2	Sequence 2, Appl1
36	92	29.3	770	10 US-09-794-925-55	Sequence 55, Appl
37	92	29.3	770	10 US-09-681-442-55	Sequence 55, Appl
38	92	29.3	770	10 US-09-149-718-6	Sequence 6, Appl1
39	92	29.3	772	10 US-09-794-927-59	Sequence 59, Appl
40	92	29.3	772	10 US-09-795-847-59	Sequence 59, Appl
41	92	29.3	772	10 US-09-794-743-59	Sequence 59, Appl
42	92	29.3	772	10 US-09-794-748-59	Sequence 59, Appl
43	92	29.3	772	10 US-09-794-925-59	Sequence 59, Appl
44	92	29.3	772	10 US-09-681-442-59	Sequence 59, Appl
45	91	29.0	51	10 US-09-827-948-28	Sequence 28, Appl

#### ALIGNMENTS

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RESULT 1
US-09-819-136-2
: Sequence 2, Application US/09819136
: Patent No. US20020146789A1
: GENERAL INFORMATION:
: APPLICANT: Conklin, Darrell C.
: TITLE OF INVENTION: MULTI-DOMAIN PROTEINASE INHIBITOR
: FILE REFERENCE: 00-25
: CURRENT APPLICATION NUMBER: US/09/819,136
: PRIOR FILING DATE: 2001-03-27
: PRIOR APPLICATION NUMBER: US 60/193,642
: NUMBER OF SEQ ID NOS: 13
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 2
: LENGTH: 548
: TYPE: PRT
: ORGANISM: Homo sapiens
US-09-819-136-2

Query Match      100.0%; Score 314; DB 10; Length 548;
Best Local Similarity 100.0%; Pred. No. 4.4e-21;
Matches 53; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CLPDVQACTGPTSPHLVLMHYPDQRCGCMTPRANGCDGARGFTYEACQAC 53
Db 299 CLPDVQACTGPTSPHLVLMHYPDQRCGCMTPRANGCDGARGFTYEACQAC 351

RESULT 2
US-09-794-589-2
: Sequence 2, Application US/09794589
: Patent No. US2002004224A1
: GENERAL INFORMATION:
: APPLICANT: Sheppard, Paul O.
: TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN8
: FILE REFERENCE: 00-01
: CURRENT APPLICATION NUMBER: US/09/794,589
: PRIOR FILING DATE: 2001-02-27
: PRIOR APPLICATION NUMBER: US 60/186,069
: PRIOR FILING DATE: 2000-02-29
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NUMBER OF SEQ ID NOS: 7  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 2  
LENGTH: 576  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-794-389-2

Query Match 34.6%; Score 108.5; DB 10; Length 576;  
Best Local Similarity 38.5%; Pred. No. 8.4e-06;  
Matches 20; Conservative 9; Mismatches 20; Indels 3; Gaps 1;

QY 2 LPDVACGTPSPHVLWHDYDQRCGCTFPARGCDGARGFETYEACQAC 53  
DB 388 LPALQ---GPKAYAPRWAVNSQTQCCSFYGGCEGNGNFFESREACEESC 436

## RESULT 3

US-09-925-301-1175  
Sequence 1175, Application US/09925301  
Patent No. US20020052308A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
FILE REFERENCE: PA106  
CURRENT APPLICATION NUMBER: US/09/925,301  
CURRENT FILING DATE: 2001-08-10  
PRIOR APPLICATION NUMBER: PCT/US00/05882  
PRIOR FILING DATE: 2000-03-08  
PRIOR APPLICATION NUMBER: 60/124,270  
NUMBER OF SEQ ID NOS: 1694  
SOFTWARE: Patent Ver. 2.0  
SEQ ID NO 1175  
LENGTH: 366  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-925-301-1175

Query Match 30.1%; Score 94.5; DB 10; Length 366;  
Best Local Similarity 33.3%; Pred. No. 0.00028;  
Matches 18; Conservative 8; Mismatches 23; Indels 5; Gaps 1;

QY 5 VOACT-----GPTSPHVLWHDYDQRCGCTFPARGCDGARGFETYEACQAC 53  
DB 298 VAACNLPYVGRAPFQIMAFDAVKGKCYLFYGGCGGNGNFFYSPEKREYEC 351

## RESULT 4

US-09-741-106-2  
Sequence 2, Application US/09741106  
Publication No. US20020197667A1  
GENERAL INFORMATION:  
APPLICANT: Inis, Michael  
TITLE OF INVENTION: Chimeric Proteins  
NUMBER OF SEQUENCES: 37  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Chiron Corporation  
STREET: 4560 Horton St.  
CITY: Emeryville  
STATE: CA  
COUNTRY: USA  
ZIP: 94608  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30B  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/741,106  
FILING DATE: 12-Dec-2000  
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/286,521  
FILING DATE: 1994-08-05  
ATTORNEY/AGENT INFORMATION:  
NAME: Saveriede, Paul B.  
REGISTRATION NUMBER: 36,914  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 510-601-2585  
TELEFAX: 510-655-3542  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 51 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-09-741-106-2

Query Match 29.9%; Score 94; DB 9; Length 51;  
Best Local Similarity 40.9%; Pred. No. 4e-05;  
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 10 GPTSPHVLWHDYDQRCGCTFPARGCDGARGFETYEACQAC 53  
DB 8 GPCRALIRYIDRYTQSCROFLYGGCEGNGNFFYTWACDDAC 51

## RESULT 5

US-09-827-948-7  
Sequence 7, Application US/09827948  
Patent No. US20010029034A1  
GENERAL INFORMATION:  
APPLICANT: Gentz, Reiner, L.  
APPLICANT: Hsu, Tsu-An  
APPLICANT: Rosen, Craig A.  
APPLICANT: Ni, Jian  
TITLE OF INVENTION: Tissue Factor Pathway Inhibitor-3  
FILE REFERENCE: 1488.1290002  
CURRENT APPLICATION NUMBER: US/09/827,948  
CURRENT FILING DATE: 2001-04-06  
PRIOR APPLICATION NUMBER: US 09/013,896  
PRIOR FILING DATE: 1998-01-27  
NUMBER OF SEQ ID NOS: 31  
SOFTWARE: Patent version 3.0  
SEQ ID NO 7  
LENGTH: 51  
TYPE: PRT  
ORGANISM: Human  
US-09-827-948-7

Query Match 29.9%; Score 94; DB 10; Length 51;  
Best Local Similarity 40.9%; Pred. No. 4e-05;  
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 10 GPTSPHVLWHDYDQRCGCTFPARGCDGARGFETYEACQAC 53  
DB 8 GPCRALIRYIDRYTQSCROFLYGGCEGNGNFFYTWACDDAC 51

## RESULT 6

US-09-904-621-15  
Sequence 15, Application US/09904621  
Patent No. US20020098560A1  
GENERAL INFORMATION:  
APPLICANT: Sprecher, Cindy A.  
APPLICANT: Kiesel, Walter  
APPLICANT: Foster, Donald C.  
TITLE OF INVENTION: NOVEL HUMAN KUNITZ-TYPE INHIBITORS  
TITLE OF INVENTION: AND  
FILE REFERENCE: 93-14D3

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; CURRENT APPLICATION NUMBER: US/09/904,621
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/265,627
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 5,455,338
; PRIOR FILING DATE: EARLIER FILING DATE: 1993-11-05
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 55
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (1)...(2)
; OTHER INFORMATION: aa1-2 wherein each amino acid from position 1 to
; OTHER INFORMATION: 2 is individually any amino acid except cysteine.
; NAME/KEY: VARIANT
; LOCATION: (54)...(55)
; OTHER INFORMATION: aa54-55 wherein each amino acid from position 54
; OTHER INFORMATION: to 55 is individually any amino acid except
; OTHER INFORMATION: cysteine.
US-09-904-621-15

Query Match          29.9%; Score 94; DB 10; Length 55;
Best Local Similarity 40.9%; Pred. No. 4,4e-05;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 10 GPTSPHLVLMHYDPQRCGCMTPPARCGDGAARGFETYEACQAC 53
Db 10 GPCRALLRYYDRYQSCRFYGGCEGANNFYTWACDDAC 53

RESULT 7
US-10-125-258-37
; Sequence 37, Application US/10125258
; Publication No. US20030028920A1
; GENERAL INFORMATION:
; APPLICANT: Altier, Daniel J.
; APPLICANT: Herrmann, Rafael
; APPLICANT: Lu, Albert L.
; APPLICANT: McCutchen, Billy F.
; APPLICANT: Prensall, James K.
; APPLICANT: Weaver, Janine L.
; APPLICANT: Wong, James F. H.
; TITLE OF INVENTION: Antimicrobial Polypeptides and Their
; TITLE OF INVENTION: Uses
; FILE REFERENCE: 35718/246215
; CURRENT APPLICATION NUMBER: US/10/125,258
; PRIOR FILING DATE: 2002-04-18
; PRIOR APPLICATION NUMBER: 60/285,355
; PRIOR FILING DATE: 2001-04-20
; NUMBER OF SEQ ID NOS: 127
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 37
; LENGTH: 83
; TYPE: PRT
; ORGANISM: Ostrinia nubilalis
US-10-125-258-37

Query Match          29.9%; Score 94; DB 9; Length 83;
Best Local Similarity 42.2%; Pred. No. 6,7e-05;
Matches 19; Conservative 2; Mismatches 24; Indels 0; Gaps 0;

QY 9 TGFTSPHLVLMHYDPQRCGCMTPPARCGDGAARGFETYEACQAC 53
Db 33 TGCRGRKVAFGYDTDLGCKQPIYGGCDGNGRNYTLECCQAC 77

RESULT 8
US-10-125-258-38
; Sequence 38, Application US/10125258
; Publication No. US20030028920A1
; GENERAL INFORMATION:
; APPLICANT: Altier, Daniel J.
; APPLICANT: Herrmann, Rafael
; APPLICANT: Lu, Albert L.
; APPLICANT: McCutchen, Billy F.
; APPLICANT: Prensall, James K.
; APPLICANT: Weaver, Janine L.
; APPLICANT: Wong, James F. H.
; TITLE OF INVENTION: Antimicrobial Polypeptides and Their
; TITLE OF INVENTION: Uses
; FILE REFERENCE: 35718/246215
; CURRENT APPLICATION NUMBER: US/10/125,258
; PRIOR FILING DATE: 2002-04-18
; PRIOR APPLICATION NUMBER: 60/285,355
; PRIOR FILING DATE: 2001-04-20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 83
; TYPE: PRT
; ORGANISM: Ostrinia nubilalis
US-10-125-258-38

Query Match          29.9%; Score 94; DB 9; Length 83;
Best Local Similarity 42.2%; Pred. No. 6,7e-05;
Matches 19; Conservative 2; Mismatches 24; Indels 0; Gaps 0;

QY 9 TGFTSPHLVLMHYDPQRCGCMTPPARCGDGAARGFETYEACQAC 53
Db 33 TGCRGRKVAFGYDTDLGCKQPIYGGCDGNGRNYTLECCQAC 77

RESULT 9
US-10-086-176A-6
; Sequence 6, Application US/10086176A
; Patent No. US20020173465A1
; GENERAL INFORMATION:
; APPLICANT: Hambrough, Todd
; APPLICANT: Papathanassiou, Adonia E.
; APPLICANT: Green, Shawn J.
; TITLE OF INVENTION: Compositions and Methods for Inhibiting Cellular Proliferation
; FILE REFERENCE: 05213-0296 43170-266780
; CURRENT APPLICATION NUMBER: US/10/086,176A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 09/766,778
; PRIOR FILING DATE: 2001-01-22
; PRIOR APPLICATION NUMBER: US 09/227,955
; PRIOR FILING DATE: 1999-01-11
; PRIOR APPLICATION NUMBER: US 08/796,850
; PRIOR FILING DATE: 1997-02-06
; PRIOR APPLICATION NUMBER: US 09/130,273
; PRIOR FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 213
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic peptide
US-10-086-176A-6

Query Match          29.9%; Score 94; DB 9; Length 213;
Best Local Similarity 40.9%; Pred. No. 0.00018;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 10 GPTSPHLVLMHYDPQRCGCMTPPARCGDGAARGFETYEACQAC 53
Db 21 GPCRALLRYYDRYQSCRFYGGCEGANNFYTWACDDAC 64
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RESULT 10
US-09-766-778-2
; Sequence 2, Application US/09766778
; Patent No. US20010018204A1
; GENERAL INFORMATION:
; APPLICANT: Papathanasiu, Adonia E
; TITLE OF INVENTION: Compositions and Methods for Inhibiting
; Cellular Proliferation
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Jones & Askew
; STREET: 191 Peachtree Street, 37th Floor
; CITY: Atlanta
; STATE: Georgia
; COUNTRY: U.S.A.
; ZIP: 30303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/766,778
; FILING DATE: 22-Jan-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/227,955
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Greene, Jamie L.
; REGISTRATION NUMBER: 32,467
; REFERENCE/DOCKET NUMBER: 05213-0290
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (404) 818-3700
; TELEFAX: (404) 818-3799
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 213 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHEICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE: N-terminal
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-766-778-2
;
Query Match 29.9%; Score 94; DB 10; Length 213;
Best Local Similarity 40.9%; Pred. No. 0.00018;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 10 GPTSPHLVLMHYDDPQRCGCMFPARGCDGARGFETYEACQAC 53
|| |::|| | |::|| | |::|| |
Db 21 GPCRALLRYYDRYTQSCRFLYGCGEGNANNFTWEACDDAC 64

RESULT 11
US-09-736-457-332
; Sequence 332, Application US/09736457
; Patent No. US20020168637A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaltanya S.
; APPLICANT: Iodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
```

```
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 332
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-736-457-332
;
Query Match 29.9%; Score 94; DB 9; Length 235;
Best Local Similarity 40.9%; Pred. No. 0.0002;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 10 GPTSPHLVLMHYDDPQRCGCMFPARGCDGARGFETYEACQAC 53
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Db 43 GPCRALLRYYDRYTQSCRFLYGCGEGNANNFTWEACDDAC 86

RESULT 12
US-09-902-941-332
; Sequence 332, Application US/09902941
; Patent No. US20020172952A1
; GENERAL INFORMATION:
; APPLICANT: Henderson, Robert A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Matanabe, Yoshihiro
; APPLICANT: Johnson, Jeffrey C.
; APPLICANT: Retter, Marc W.
; APPLICANT: Marnerakis, Margarita
; APPLICANT: Carter, Darrick
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Bangur, Chaltanya S.
; APPLICANT: McNabb, Andria
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C17
; CURRENT APPLICATION NUMBER: US/09/902,941
; CURRENT FILING DATE: 2001-07-10
; NUMBER OF SEQ ID NOS: 2002
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 332
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-941-332
;
Query Match 29.9%; Score 94; DB 9; Length 235;
Best Local Similarity 40.9%; Pred. No. 0.0002;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 10 GPTSPHLVLMHYDDPQRCGCMFPARGCDGARGFETYEACQAC 53
|| |::|| | |::|| | |::|| |
Db 43 GPCRALLRYYDRYTQSCRFLYGCGEGNANNFTWEACDDAC 86

RESULT 13
US-09-849-626-332
; Sequence 332, Application US/09849626
; Patent No. US20020197669A1
; GENERAL INFORMATION:
; APPLICANT: Bangur, Chaltanya
; APPLICANT: Fanger, Gary
; APPLICANT: Wang, Aijun
; APPLICANT: Wang, Tongtong
; APPLICANT: Switzer, Anne
; APPLICANT: McNeill, Patricia
```

```
; APPLICANT: Clapper, Jonathan
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSTICS OF LUNG CANCER
; FILE REFERENCE: 210121.478C16
; CURRENT APPLICATION NUMBER: US/09/849,626
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 1926
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 332
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-849-626-332

Query Match          29.9%; Score 94; DB 9; Length 235;
Best Local Similarity 40.9%; Pred. No. 0.0002;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 10 GPTSPHLVLMHYDPORGCMTPFARGCGAARGFETYEACQAC 53
DB 43 GPCRALLRLRYDYDRYTGSCRFYGGCGEGNANNFTYWEACDDAC 86

RESULT 14
US-09-904-621-2
; Sequence 2, Application US/09904621
; Patent No. US20020098560A1
; GENERAL INFORMATION:
; APPLICANT: Sprecher, Cindy A.
; APPLICANT: Kistiel, Walter
; APPLICANT: Foster, Donald C.
; TITLE OF INVENTION: NOVEL HUMAN KUNITZ-TYPE INHIBITORS
; TITLE OF INVENTION: AND
; FILE REFERENCE: 93-14D3
; CURRENT APPLICATION NUMBER: US/09/904,621
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/265,627
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 5,455,338
; PRIOR FILING DATE: EARLIER FILING DATE: 1993-11-05
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 2
; LENGTH: 235
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-904-621-2

Query Match          29.9%; Score 94; DB 10; Length 235;
Best Local Similarity 40.9%; Pred. No. 0.0002;
Matches 18; Conservative 5; Mismatches 21; Indels 0; Gaps 0;

QY 10 GPTSPHLVLMHYDPORGCMTPFARGCGAARGFETYEACQAC 53
DB 43 GPCRALLRLRYDYDRYTGSCRFYGGCGEGNANNFTYWEACDDAC 86

RESULT 15
US-09-864-761-33588
; Sequence 33588, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEOTIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeonica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
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; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
; SEQ ID NO: 33588
; LENGTH: 55
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AP000142.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 4.5
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 3.6
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 4.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 4.6
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 5.3
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 4
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 4.7
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 3.4
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3.2
; OTHER INFORMATION: EST HUMAN HIT: AU131304.1, EVALUATE 1.00e-29
; OTHER INFORMATION: EST HUMAN HIT: BE157529.1, EVALUATE 9.00e-30
; OTHER INFORMATION: SWISSPROT HIT: P05067, EVALUATE 1.00e-30
US-09-864-761-33588

Query Match          29.3%; Score 92; DB 10; Length 55;
Best Local Similarity 37.5%; Pred. No. 7.7e-05;
Matches 18; Conservative 4; Mismatches 26; Indels 0; Gaps 0;

QY 6 QACTGPTSPHLVLMHYDPORGCMTPFARGCGAARGFETYEACQAC 53
DB 5 QAGTGCRAAMISRWYFVTEGKCAPEFYGGCGGNRNNFTDEYCAVAC 52

Search completed: February 20, 2003, 08:35:56
Job time : 2.19267 secs
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## OM protein - protein search, using sw model

Run on: February 20, 2003, 08:09:37 ; Search time 2.64303 Seconds  
(without alignments)  
478.688 Million cell updates/sec

Title: US-09-819-136-2\_COPY\_33\_75

Perfect score: 253  
Sequence: 1 CPNQLSPNLMWDQSTGRCRE.....DQDCAAAEKCCINVCGLHSC 43

Scoring table:  
Gapop 10.0, Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

## Database :

Issued Patents, AA: \*  
1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep: \*  
2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep: \*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep: \*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep: \*  
5: /cgn2\_6/ptodata/1/1aa/PCTUS.COMB.pep: \*  
6: /cgn2\_6/ptodata/1/1aa/Backfile1.pep: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	82.5	32.6	174	US-09-724-864-56	Sequence 56, Appl
2	82	32.4	42	US-08-761-248B-15	Sequence 15, Appl
3	81	32.0	43	US-08-761-248B-13	Sequence 13, Appl
4	81	32.0	680	US-08-211-430-2	Sequence 2, Appl
5	81	32.0	680	US-08-761-136-1	Sequence 1, Appl
6	77.5	30.6	44	US-08-761-248B-12	Sequence 12, Appl
7	75	29.6	72	US-09-383-586-38	Sequence 38, Appl
8	71.5	28.3	42	US-08-761-248B-9	Sequence 9, Appl
9	68	26.9	127	US-08-162-146-3	Sequence 3, Appl
10	68	26.9	127	US-09-314-127-3	Sequence 3, Appl
11	67.5	26.7	51	US-08-761-248B-14	Sequence 14, Appl
12	66.5	26.3	38	US-08-761-248B-11	Sequence 11, Appl
13	64.5	25.3	37	US-09-326-039-5	Sequence 5, Appl
14	64	25.3	2594	US-08-718-388-7	Sequence 7, Appl
15	64	25.3	5405	US-08-718-388-9	Sequence 9, Appl
16	63	24.9	42	US-09-326-039-7	Sequence 7, Appl
17	63	24.9	42	US-08-761-248B-10	Sequence 10, Appl
18	63	24.9	57	US-08-379-437-1	Sequence 1, Appl
19	63	24.9	57	US-08-379-437-2	Sequence 2, Appl
20	63	24.9	57	US-08-379-437-4	Sequence 4, Appl
21	63	24.9	57	US-08-379-437-6	Sequence 6, Appl
22	63	24.9	57	US-08-379-437-8	Sequence 8, Appl
23	63	24.9	1104	US-08-327-832-5	Sequence 5, Appl
24	63	24.9	1104	US-08-828-584-5	Sequence 5, Appl
25	62	24.5	44	US-08-761-248B-8	Sequence 8, Appl
26	62	24.5	107	US-07-963-538B-4	Sequence 4, Appl
27	62	24.5	132	US-08-304-051-21	Sequence 21, Appl

28	62	24.5	132	5	PCT-US95-11445-21	Sequence 21, Appl
29	62	24.5	133	4	US-09-152-060-75	Sequence 75, Appl
30	61	24.1	95	4	US-09-177-249-273	Sequence 273, App
31	61	24.1	689	4	US-09-177-249-2	Sequence 2, Appl
32	61	24.1	689	4	US-09-061-769A-2	Sequence 2, Appl
33	60	23.7	49	1	US-08-304-051-1	Sequence 1, Appl
34	60	23.7	49	5	PCT-US95-11445-1	Sequence 1, Appl
35	60	23.7	107	3	US-08-483-503A-3	Sequence 4, Appl
36	59.5	23.5	49	2	US-07-963-538B-3	Sequence 3, Appl
37	59.5	23.5	50	2	US-07-963-538B-2	Sequence 2, Appl
38	59.5	23.5	53	2	US-07-963-538B-1	Sequence 1, Appl
39	59.5	23.5	60	3	US-08-483-503A-1	Sequence 1, Appl
40	58	22.9	1198	4	US-09-245-041-131	Sequence 131, App
41	58	22.9	1198	4	US-09-794-236-3	Sequence 3, Appl
42	58	22.9	1350	4	US-09-245-041-17	Sequence 17, Appl
43	58	22.9	1429	4	US-09-245-041-130	Sequence 130, App
44	58	22.9	2787	4	US-09-245-041-15	Sequence 15, Appl
45	58	22.9	4654	4	US-08-476-515A-84	Sequence 84, Appl

## ALIGNMENTS

```
RESULT 1
US-09-724-864-56
; Sequence 56, Application US/09724864
; Patent No. 6380362
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Murison, James G.
; TITLE OF INVENTION: Polynucleotides, polypeptides expressed
; FILE REFERENCE: 11000.105001
; CURRENT FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: U.S. No. 6380362 60/171,678
; PRIOR FILING DATE: 1999-12-23
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 56
; LENGTH: 174
; TYPE: PRT
; ORGANISM: Mouse
US-09-724-864-56

Query Match 32.6%; Score 82.5; DB 4; Length 174;
Best Local Similarity 37.2%; Pred. No. 0.021;
Matches 16; Conservative 4; Mismatches 18; Indels 5; Gaps 1;

QY 1 CPNQLSPNLMWDQSTGRCRECSRDQCAAEKCCINVCGLHSC 43
DB 132 CPSVDIPKL-----GLCEDQCVDSDSGNMRCCRGCGKMAC 169

RESULT 2
US-08-761-248B-15
; Sequence 15, Application US/08761248B
; Patent No. 5958735
; GENERAL INFORMATION:
; APPLICANT: ROWLEY, DAVID R.
; TITLE OF INVENTION: UROGENITAL SINUS DERIVED GROWTH
; TITLE OF INVENTION: FACTOR NUCLEOTIDE AND AMINO ACID SEQUENCES
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESS: Jenkins & Gilchrist
; STREET: 1100 Louisiana, Suite 1800
; CITY: Houston
; STATE: TX
; COUNTRY: USA
; ZIP: 77002
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
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RESULT 5  
 US-08-761-136-1  
 : Sequence 1, Application US/08761136  
 : Patent No. 6121231  
 :  
 : GENERAL INFORMATION:  
 :  
 : APPLICANT: PETIT, CHRISTINE  
 : APPLICANT: SOUSSI-YANTICOTAS, NADIA  
 : APPLICANT: HARDELIN, JEAN-PIERRE  
 : APPLICANT: SARATHI, CATHERINE  
 : APPLICANT: ROUGON, GENEVIEVE  
 : APPLICANT: LEGOUIS, RENAUD  
 : APPLICANT: ARDOUIN, OLIVIER  
 : APPLICANT: MAZIE, JEAN-CLAUDE  
 : TITLE OF INVENTION: USE OF KAL PROTEIN AND TREATMENT WITH  
 : TITLE OF INVENTION: THE KAL PROTEIN IN TREATMENT OF RETINAL, RENAL, NEUROMAL  
 : TITLE OF INVENTION: AND NEURAL INJURY  
 :  
 : NUMBER OF SEQUENCES: 3



;; CORRESPONDENCE ADDRESS:  
;; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,  
;; ADDRESSEE: P.C.  
;; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400  
;; CITY: ARLINGTON  
;; STATE: VA  
;; COUNTRY: USA  
;; ZIP: 22202  
;;  
;; COMPUTER READABLE FORM:  
;; MEDIUM TYPE: floppy disk  
;; COMPUTER: IBM PC compatible  
;; OPERATING SYSTEM: PC-DOS/MS-DOS  
;; SOFTWARE: Patent Release #1.0, Version #1.30  
;;  
;; CURRENT APPLICATION DATA:  
;; APPLICATION NUMBER: US/08/761,136  
;; FILING DATE: 06-DEC-1996  
;; CLASSIFICATION: 435  
;; ATTORNEY/AGENT INFORMATION:  
;; NAME: OBLON, NORMAN F.  
;; REGISTRATION NUMBER: 24,618  
;; REFERENCE/DOCKET NUMBER: 660-112-0  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: 703-413-3000  
;; TELEFAX: 703-412-2220  
;; INFORMATION FOR SEQ ID NO: 1:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 680 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: protein  
;; US-08-761-136-1

Query Match 32.0%; Score 81; DB 3; Length 680;  
Best Local Similarity 34.9%; Pred. No. 0.12;  
Matches 15; Conservative 6; Mismatches 18; Indels 4; Gaps 2;

QY 1 CPNQLSPNLWVDAQSTCERCSRDQCAAAEKCCINVGHLSC 43  
DB 134 CP---APEKASGFPAACVESCEVDNCSGVKKCCNSGCG-HTC 172

RESULT 6  
US-08-761-248B-12  
; Sequence 12, Application US/08761248B  
; Patent No. 5958735  
; GENERAL INFORMATION:  
; APPLICANT: ROWLEY, DAVID R.  
; TITLE OF INVENTION: UROGENITAL STIMUS DERIVED GROWTH  
; TITLE OF INVENTION: FACTOR NUCLEOTIDE AND AMINO ACID SEQUENCES  
; NUMBER OF SEQUENCES: 15  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Jenkins & Gilchrist  
; STREET: 1100 Louisiana, Suite 1800  
; CITY: Houston  
; STATE: TX  
; COUNTRY: USA  
; ZIP: 77002  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FASTSEQ for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/761,248B  
; FILING DATE: 06-DEC-1996  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/008,348  
; FILING DATE: 07-DEC-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Turley, Charles P.  
; REGISTRATION NUMBER: 35,723

;; REFERENCE/DOCKET NUMBER: 34012.6  
;; TELECOMMUNICATION INFORMATION:  
;; TELEPHONE: (713)9513310  
;; TELEFAX: (713)9513314  
;; TELEX:  
;; INFORMATION FOR SEQ ID NO: 12:  
;; SEQUENCE CHARACTERISTICS:  
;; LENGTH: 44 amino acids  
;; TYPE: amino acid  
;; STRANDEDNESS: single  
;; TOPOLOGY: linear  
;; MOLECULE TYPE: peptide  
;; US-08-761-248B-12  
;;  
;; Query Match 30.6%; Score 77.5; DB 2; Length 44;  
;; Best Local Similarity 33.3%; Pred. No. 0.02;  
;; Matches 13; Conservative 3; Mismatches 16; Indels 7; Gaps 1;

QY 1 CPNQLSPNLWVDAQSTCERCSRDQCAAAEKCCINVGCG 39  
DB 1 CPKTSGPGL-----CLHGCDSDSPCKESQKCCFDGCG 32

RESULT 7  
US-09-383-586-38  
; Sequence 38, Application US/09383586  
; Patent No. 6242419  
; GENERAL INFORMATION:  
; APPLICANT: Strachan, Lorna  
; APPLICANT: Sleeman, Matthew  
; APPLICANT: Abernethy, Nevyn  
; APPLICANT: Orrust, Rene  
; APPLICANT: Kumble, Anand  
; APPLICANT: Marison, Greg  
; TITLE OF INVENTION: Compounds isolated from stromal cells  
; TITLE OF INVENTION: and methods for their use  
; FILE REFERENCE: 11000.1037c1  
; CURRENT APPLICATION NUMBER: US/09/383,586  
; CURRENT FILING DATE: 1999-08-26  
; NUMBER OF SEQ ID NOS: 38  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 38  
; LENGTH: 72  
; TYPE: PPT  
; ORGANISM: Mouse  
;; US-09-383-586-38

Query Match 29.6%; Score 75; DB 4; Length 72;  
Best Local Similarity 33.3%; Pred. No. 0.061;  
Matches 16; Conservative 4; Mismatches 22; Indels 6; Gaps 2;

QY 1 CPNQLS-----PNLWVDAQSTCERCSRDQCAAAEKCCINVGHLSC 43  
DB 21 CPKEFEKPGACPKPSPESVIGICVDQCSGDSGCGNKKCCNSGCG-HVC 67

RESULT 8  
US-08-761-248B-9  
; Sequence 9, Application US/08761248B  
; Patent No. 5958735  
; GENERAL INFORMATION:  
; APPLICANT: ROWLEY, DAVID R.  
; TITLE OF INVENTION: UROGENITAL STIMUS DERIVED GROWTH  
; TITLE OF INVENTION: FACTOR NUCLEOTIDE AND AMINO ACID SEQUENCES  
; NUMBER OF SEQUENCES: 15  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Jenkins & Gilchrist  
; STREET: 1100 Louisiana, Suite 1800  
; CITY: Houston  
; STATE: TX  
; COUNTRY: USA  
; ZIP: 77002  
; COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/761,248B  
FILING DATE: 06-DEC-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/008,348  
FILING DATE: 07-DEC-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Turley, Charles P  
REGISTRATION NUMBER: 35,723  
REFERENCE/DOCKET NUMBER: 34012.6  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (713)9513310  
TELEFAX: (713)9513314  
TELEX:  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 42 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: peptide  
US-08-761-248B-9

Query Match 28.3%; Score 71.5; DB 2; Length 42;  
Best Local Similarity 33.3%; Pred. No. 0.089; 11; Indels 11; Gaps 1;  
Matches 13; Conservative 4; Mismatches 11;

Qy 1 CPNOLSPNLMVDAOSTCERECSDCAAEKCCINVCG 39  
Db 8 CPARHPN-----KCSVDYDCKPKKCCGCGCG 35

RESULT 9  
US-08-162-146-3  
Sequence 3, Application US/08162146  
Patent No. 5965788  
GENERAL INFORMATION:  
APPLICANT: HOUDEBINE, Louis-Marie  
APPLICANT: DEVINOY, Eve  
TITLE OF INVENTION: Production of a Protein of Interest in  
TITLE OF INVENTION: the Milk of a Transgenic Mammalian  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/162,146  
FILING DATE: 10-FEB-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/FR92/00533  
FILING DATE: 12-JUN-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: FR 91/07179  
FILING DATE: 12-JUN-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: WEGNER, Harold C.  
REGISTRATION NUMBER: 25,258

TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 127 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-162-146-3

Query Match 26.9%; Score 68; DB 2; Length 127;  
Best Local Similarity 31.1%; Pred. No. 0.65; 13; Indels 12; Gaps 3;  
Matches 14; Conservative 6; Mismatches 13;

Qy 1 CPNOLSPNLMVDA--OSTCER--ECSDCAAEKCCINVCGL 40  
Db 78 CP-----WVQAPMLSQLCELSDCANDIECRDCKKCFRCAM 115

RESULT 10  
US-09-314-127-3  
Sequence 3, Application US/09314127  
Patent No. 6268545  
GENERAL INFORMATION:  
APPLICANT: HOUDEBINE, Louis-Marie  
APPLICANT: DEVINOY, Eve  
TITLE OF INVENTION: Production of a Protein of Interest in  
TITLE OF INVENTION: the Milk of a Transgenic Mammalian  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Foley & Lardner  
STREET: 3000 K Street, N.W., Suite 500  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20007-5109  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/314,127  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/162,146  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: FR 91/07179  
FILING DATE: 12-JUN-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: WEGNER, Harold C.  
REGISTRATION NUMBER: 25,258  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 672-5300  
TELEFAX: (202) 672-5399  
TELEX: 904136  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 127 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-314-127-3

Query Match 26.9%; Score 68; DB 4; Length 127;  
Best Local Similarity 31.1%; Pred. No. 0.65; 13; Indels 12; Gaps 3;  
Matches 14; Conservative 6; Mismatches 13;

QY 1 CPNOLSPNLMVDA---QSTCER--ECSRDDCAAEKCCINVCGL 40  
|| | | | | : | : | | : | :  
DB 78 CP-----WQAPMLSQLCELSDCANDIECRGDKKCCFSRCAM 115

## RESULT 11

US-08-761-248B-14

Sequence 14, Application US/08761248B

Patent No. 5958735

GENERAL INFORMATION:

APPLICANT: ROWLEY,, DAVID R.

TITLE OF INVENTION: UROGENITAL SINUS DERIVED GROWTH

TITLE OF INVENTION: FACTOR NUCLEOTIDE AND AMINO ACID SEQUENCES

NUMBER OF SEQUENCES: 15

CORRESPONDENCE ADDRESS:

ADDRESSEE: Jenkins &amp; Gilchrist

STREET: 1100 Louisiana, Suite 1800

CITY: Houston

STATE: TX

COUNTRY: USA

ZIP: 77002

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/761,248B

FILING DATE: 06-DEC-1996

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/008,348

FILING DATE: 07-DEC-1995

ATTORNEY/AGENT INFORMATION:

NAME: Turley, Charles P

REGISTRATION NUMBER: 35,723

REFERENCE/DOCKET NUMBER: 34012.6

TELECOMMUNICATION INFORMATION:

TELEPHONE: (713)9513310

TELEFAX: (713)9513314

TELEX:

INFORMATION FOR SEQ ID NO: 14:

SEQUENCE CHARACTERISTICS:

LENGTH: 51 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-761-248B-14

QY 13 AOSTCERE--GSRDDCAAEKCCINVCGLHSC 43

DB 10 AAGPCPKDNPCSIIDSCGSTMCKCKNGC-IMSC 41

US-08-761-248B-11

Sequence 11, Application US/08761248B

Patent No. 5958735

GENERAL INFORMATION:

APPLICANT: ROWLEY,, DAVID R.

TITLE OF INVENTION: UROGENITAL SINUS DERIVED GROWTH

TITLE OF INVENTION: FACTOR NUCLEOTIDE AND AMINO ACID SEQUENCES

NUMBER OF SEQUENCES: 15

CORRESPONDENCE ADDRESS:

ADDRESSEE: Jenkins &amp; Gilchrist

STREET: 1100 Louisiana, Suite 1800

CITY: Houston

STATE: TX

QY 16 TCERCSRDODCAAEKCCINVCGLHSC 43

DB 8 TCVELCTGDMDCNPGDHCVSNCGG-HEC 34

US-08-718-388-7

Sequence 7, Application US/08718388

Patent No. 6271362

COUNTRY: USA  
ZIP: 77002  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/761,248B  
FILING DATE: 06-DEC-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/008,348  
FILING DATE: 07-DEC-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Turley, Charles P  
REGISTRATION NUMBER: 35,723  
REFERENCE/DOCKET NUMBER: 34012.6  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (713)9513310  
TELEFAX: (713)9513314  
TELEX:

INFORMATION FOR SEQ ID NO: 11:

SEQUENCE CHARACTERISTICS:

LENGTH: 38 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-761-248B-11

QY 1 CPNOLSPNLMVDAQSTCERCSRDODCAAEKCCINVC 38

DB 1 CPE-----LDADONCTOECVSDSECDNLKCSAGC 31

US-09-326-039-5

Sequence 5, Application US/09326039

Patent No. 6239254

GENERAL INFORMATION:

APPLICANT: Conklin, Darrell

TITLE OF INVENTION: Disulfide Core Polypeptides

FILE REFERENCE: 98-13

CURRENT APPLICATION NUMBER: US/09/326,039

CURRENT FILING DATE: 1999-06-04

EARLIER APPLICATION NUMBER: 60/088,136

EARLIER FILING DATE: 1998-06-04

NUMBER OF SEQ ID NOS: 23

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO: 5

LENGTH: 37

TYPE: PRT

ORGANISM: Homo sapiens

US-09-326-039-5

QY 16 TCERCSRDODCAAEKCCINVCGLHSC 43

DB 8 TCVELCTGDMDCNPGDHCVSNCGG-HEC 34

US-08-718-388-7

Sequence 7, Application US/08718388

Patent No. 6271362

QY 16 TCERCSRDODCAAEKCCINVCGLHSC 43

DB 8 TCVELCTGDMDCNPGDHCVSNCGG-HEC 34

US-08-718-388-7

Sequence 7, Application US/08718388

Patent No. 6271362

QY 16 TCERCSRDODCAAEKCCINVCGLHSC 43

DB 8 TCVELCTGDMDCNPGDHCVSNCGG-HEC 34

US-08-718-388-7

Sequence 7, Application US/08718388

Patent No. 6271362

QY 16 TCERCSRDODCAAEKCCINVCGLHSC 43

DB 8 TCVELCTGDMDCNPGDHCVSNCGG-HEC 34

US-08-718-388-7

Sequence 7, Application US/08718388

Patent No. 6271362

QY 16 TCERCSRDODCAAEKCCINVCGLHSC 43

DB 8 TCVELCTGDMDCNPGDHCVSNCGG-HEC 34

US-08-718-388-7

Sequence 7, Application US/08718388

Patent No. 6271362

QY 16 TCERCSRDODCAAEKCCINVCGLHSC 43

DB 8 TCVELCTGDMDCNPGDHCVSNCGG-HEC 34

US-08-718-388-7

Sequence 7, Application US/08718388

Patent No. 6271362

QY 16 TCERCSRDODCAAEKCCINVCGLHSC 43

DB 8 TCVELCTGDMDCNPGDHCVSNCGG-HEC 34

US-08-718-388-7

Sequence 7, Application US/08718388

Patent No. 6271362

```

; GENERAL INFORMATION:
; APPLICANT: MORIKAWA, MINORU
; APPLICANT: HARADA, NAOKI
; TITLE OF INVENTION: GENE ENCODING IGG FC REGION-BINDING
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BIRCH, STEWART, KOLASCH AND BIRCH
; STREET: PO BOX 747
; CITY: FALLS CHURCH
; STATE: VA
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/718,388
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: MURPHY JR, GERALD M
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 0230-111
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2594 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-718-388-7

Query Match      25.3%; Score 64; DB 4; Length 2594;
Best Local Similarity 35.3%; Pred. No. 35;
Matches 18; Conservative 5; Mismatches 16; Indels 12; Gaps 3;

QY 4 QLSPNLWVDAOSTCERCS-----RD-ODCAAERKCIWVGLHSC 43
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Db 807 QLAGGEVWADLCQRCTCNGATHQVTCRDKQSCPAGERCSVO-NGLLGC 856

RESULT 15
; US-08-718-388-9
; Sequence 9, Application US/08718388
; Patent No. 6271362
; GENERAL INFORMATION:
; APPLICANT: MORIKAWA, MINORU
; APPLICANT: HARADA, NAOKI
; TITLE OF INVENTION: GENE ENCODING IGG FC REGION-BINDING
; TITLE OF INVENTION: PROTEIN
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BIRCH, STEWART, KOLASCH AND BIRCH
; STREET: PO BOX 747
; CITY: FALLS CHURCH
; STATE: VA
; COUNTRY: USA
; ZIP: 22040-0747
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/718,388
; FILING DATE:
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: MURPHY JR, GERALD M
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 0230-111
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5405 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-718-388-9

Query Match      25.3%; Score 64; DB 4; Length 5405;
Best Local Similarity 35.3%; Pred. No. 71;
Matches 18; Conservative 5; Mismatches 16; Indels 12; Gaps 3;

QY 4 QLSPNLWVDAOSTCERCS-----RD-ODCAAERKCIWVGLHSC 43
    ||:| | | | | | | | | | | | | | | | | | | | |
Db 807 QLAGGEVWADLCQRCTCNGATHQVTCRDKQSCPAGERCSVO-NGLLGC 856
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; NAME: MURPHY JR, GERALD M
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 0230-111
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5405 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-718-388-9

Query Match      25.3%; Score 64; DB 4; Length 5405;
Best Local Similarity 35.3%; Pred. No. 71;
Matches 18; Conservative 5; Mismatches 16; Indels 12; Gaps 3;

QY 4 QLSPNLWVDAOSTCERCS-----RD-ODCAAERKCIWVGLHSC 43
    ||:| | | | | | | | | | | | | | | | | | | | |
Db 807 QLAGGEVWADLCQRCTCNGATHQVTCRDKQSCPAGERCSVO-NGLLGC 856

Search completed: February 20, 2003, 08:22:28
Job time : 4.64303 secs
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## OM protein - protein search, using sw model

Run on: February 20, 2003, 08:21:07 ; Search time 1.77896 Seconds  
(without alignments)  
617.553 Million cell updates/sec

Title: US-09-819-136-2\_COPY\_33\_75  
Perfect score: 253  
Sequence: 1 CPNQLSPNLWDAOSTCERE.....DQCAAEKCCINVCGLHSC 43

Scoring table:  
Gapop 10.0 , Gapext 0.5

Searched: 140259 seqs, 25548876 residues

Total number of hits satisfying chosen parameters: 140259

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

## Database :

Published\_Applications\_AA:\*

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- 2: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep:\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep:\*
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- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep:\*
- 6: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep:\*
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- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep:\*
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- 11: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep:\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep:\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep:\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep:\*

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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2	188	74.3	576	10	US-09-794-589-2
3	82	32.4	60	10	US-09-790-264-59
4	81	32.0	679	12	US-10-119-714-1
5	80.5	31.8	74	10	US-09-790-264-58
6	75	29.6	59	10	US-09-790-264-67
7	75	29.6	72	10	US-09-823-038A-38
8	75	29.6	76	10	US-09-790-264-56
9	72.5	28.7	124	9	US-09-924-340-42
10	72.5	28.7	124	9	US-09-924-340-42
11	72.5	28.7	137	10	US-09-924-340-42
12	69	27.3	58	9	US-09-823-038A-38
13	69	27.3	79	9	US-09-823-038A-38
14	66	26.1	49	10	US-09-864-761-34921
15	66	26.1	893	10	US-09-864-761-34921
16	65	25.7	117	10	US-09-852-659A-119
17	64.5	25.5	37	10	US-09-790-264-64
18	64.5	25.5	37	10	US-09-790-264-64
19	64.5	25.5	61	10	US-09-790-264-54

20	64.5	25.5	131	10	US-09-790-264-61	Sequence 61, App1
21	64	25.3	111	9	US-09-923-598-345	Sequence 345, App
22	64	25.3	111	9	US-09-989-293A-345	Sequence 345, App
23	64	25.3	111	9	US-09-989-735-345	Sequence 345, App
24	64	25.3	111	9	US-09-990-444-345	Sequence 345, App
25	64	25.3	111	9	US-09-989-730-345	Sequence 345, App
26	64	25.3	111	9	US-09-990-436-345	Sequence 345, App
27	64	25.3	111	9	US-09-991-181-345	Sequence 345, App
28	64	25.3	111	9	US-09-993-687-345	Sequence 345, App
29	64	25.3	111	9	US-09-989-734-345	Sequence 345, App
30	64	25.3	111	9	US-09-997-653-345	Sequence 345, App
31	64	25.3	111	9	US-09-993-667-345	Sequence 345, App
32	64	25.3	111	9	US-09-990-438-345	Sequence 345, App
33	64	25.3	111	9	US-09-990-456-345	Sequence 345, App
34	64	25.3	111	9	US-09-997-458-345	Sequence 345, App
35	64	25.3	111	9	US-09-997-666-345	Sequence 345, App
36	64	25.3	111	10	US-09-989-722-345	Sequence 345, App
37	64	25.3	111	10	US-09-989-723-345	Sequence 345, App
38	64	25.3	111	10	US-09-989-279-345	Sequence 345, App
39	64	25.3	111	10	US-09-989-727-345	Sequence 345, App
40	64	25.3	111	10	US-09-989-731-345	Sequence 345, App
41	64	25.3	111	10	US-09-989-732-345	Sequence 345, App
42	64	25.3	111	10	US-09-991-073-345	Sequence 345, App
43	64	25.3	111	10	US-09-990-442-345	Sequence 345, App
44	64	25.3	111	10	US-09-991-163-345	Sequence 345, App
45	64	25.3	111	10	US-09-993-604-345	Sequence 345, App

## ALIGNMENTS

RESULT 1  
US-09-819-136-2  
; Sequence 2, Application US/09819136  
; Patent No. US2002016789A1  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Darrell C.  
; APPLICANT: Geo. Zeren  
; TITLE OF INVENTION: MULTI-DOMAIN PROTEINASE INHIBITOR  
; FILE REFERENCE: 00-25  
; CURRENT FILING DATE: 2001-03-27  
; PRIOR APPLICATION NUMBER: US 60/193,642  
; PRIOR FILING DATE: 2000-03-31  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 548  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-819-136-2

Query Match 100.0%; Score 253; DB 10; Length 548;  
Best Local Similarity 100.0%; Pred. No. 4; 4e-21;  
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CPNQLSPNLWDAOSTCERECSRDDCAAEKCCINVCGLHSC 43  
DB 33 CPNQLSPNLWDAOSTCERECSRDDCAAEKCCINVCGLHSC 75

RESULT 2  
US-09-794-589-2  
; Sequence 2, Application US/09794589  
; Patent No. US2002004224A1  
; GENERAL INFORMATION:  
; APPLICANT: Shepard, Paul O.  
; TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN8  
; FILE REFERENCE: 00-01  
; CURRENT FILING DATE: 2001-02-27  
; PRIOR APPLICATION NUMBER: US 60/186,069  
; PRIOR FILING DATE: 2000-02-29

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; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-794-389-2
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Query Match          74.3%; Score 188; DB 10; Length 576;
Best Local Similarity 69.8%; Pred. No. 7.9e-14;
Matches 30; Conservative 3; Mismatches 10; Indels 0; Gaps 0;
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QY 1 CPNOLSPNLWDAOSTCERECSDODCAAEKCCINVCGLHSC 43
Db 46 CPNDKPNLWDAOSTCERECETDDECFEYKCCPNVCGTSC 88
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RESULT 3
US-09-790-264-59
; Sequence 59, Application US/09790264
; Patent No. US20020028508A1
; GENERAL INFORMATION:
; APPLICANT: Holtzman, Douglas A.
; APPLICANT: McCarthy, Sean A.
; TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING
; TITLE OF INVENTION: PROGNASTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER
; FILE REFERENCE: 07334-322001
; CURRENT APPLICATION NUMBER: US/09/790,264
; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: US 09/065,661
; PRIOR FILING DATE: 1998-04-23
; PRIOR APPLICATION NUMBER: US 09/298,531
; PRIOR FILING DATE: 1999-04-23
; PRIOR APPLICATION NUMBER: US 09/065,363
; PRIOR FILING DATE: 1998-04-23
; PRIOR APPLICATION NUMBER: US 09/337,930
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/102,705
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: US 09/363,630
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: US 09/124,538
; PRIOR FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59
; LENGTH: 60
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-09-790-264-59
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Query Match          32.4%; Score 82; DB 10; Length 60;
Best Local Similarity 39.5%; Pred. No. 0.006;
Matches 17; Conservative 3; Mismatches 17; Indels 6; Gaps 2;
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QY 1 CPNOLSPNLWDAOSTCERECSDODCAAEKCCINVCGLHSC 43
Db 19 CPKNPPRSI-----GTCVELCSGDSQCPNIQKCCSNGCG-HVC 55
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RESULT 4
US-10-119-714-1
; Sequence 1, Application US/10119714
; Patent No. US20020123467A1
; GENERAL INFORMATION:
; APPLICANT: PETTY, CHRISTINE
; APPLICANT: SOUSSI-YANICOSTAS, NADIA
; APPLICANT: HARDELIN, JEAN-PIERRE
; APPLICANT: SARAILH, CATHERINE
; APPLICANT: ROUGON, GENEVIEVE
; APPLICANT: LEGOUIS, RENAUD
```

```
; APPLICANT: ARDOUIN, OLIVIER
; APPLICANT: MAZIE, JEAN-CLAUDE
; TITLE OF INVENTION: THERAPEUTIC COMPOSITION COMPRISING KAL PROTEIN AND USE
; TITLE OF INVENTION: OF THE KAL PROTEIN FOR THE TREATMENT OF RETINAL, RENAL,
; FILE REFERENCE: 0660-0151-0XPCF
; CURRENT APPLICATION NUMBER: US/10/119,714
; PRIOR FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: US/09/319,236
; PRIOR FILING DATE: 1999-09-02
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 679
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-119-714-1
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Query Match          32.0%; Score 81; DB 12; Length 679;
Best Local Similarity 34.9%; Pred. No. 0.073;
Matches 15; Conservative 6; Mismatches 18; Indels 4; Gaps 2;
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QY 1 CPNOLSPNLWDAOSTCERECSDODCAAEKCCINVCGLHSC 43
Db 134 CP--APEKASGFMAACVESCVDNECSGVKCCSNGCG-HTC 172
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RESULT 5
US-09-790-264-58
; Sequence 58, Application US/09790264
; Patent No. US20020028508A1
; GENERAL INFORMATION:
; APPLICANT: Holtzman, Douglas A.
; APPLICANT: McCarthy, Sean A.
; TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING
; TITLE OF INVENTION: PROGNASTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER
; FILE REFERENCE: 07334-322001
; CURRENT APPLICATION NUMBER: US/09/790,264
; CURRENT FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: US 09/065,661
; PRIOR FILING DATE: 1998-04-23
; PRIOR APPLICATION NUMBER: US 09/298,531
; PRIOR FILING DATE: 1999-04-23
; PRIOR APPLICATION NUMBER: US 09/065,363
; PRIOR FILING DATE: 1998-04-23
; PRIOR APPLICATION NUMBER: US 09/337,930
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/102,705
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: US 09/363,630
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: US 09/124,538
; PRIOR FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 58
; LENGTH: 74
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-790-264-58
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Query Match          31.8%; Score 80.5; DB 10; Length 74;
Best Local Similarity 46.4%; Pred. No. 0.011;
Matches 13; Conservative 4; Mismatches 10; Indels 1; Gaps 1;
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QY 16 TCERECSDODCAAEKCCINVCGLHSC 43
Db 43 TCDERTGDSGSGNMKCCSNGCG-HAC 69
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RESULT 6

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US-09-790-264-67
; Sequence 67, Application US/09790264
; Patent No. US2002028508A1
; GENERAL INFORMATION:
; APPLICANT: Holtzman, Douglas A.
; APPLICANT: Goodearl, Andrew D.J.
; APPLICANT: McCarthy, Sean A.
; TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING
; TITLE OF INVENTION: PROGNASTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER
; TITLE OF INVENTION: USES
; FILE REFERENCE: 07334-322001
; CURRENT APPLICATION NUMBER: US/09/790,264
; CURRENT FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: US 09/065,661
; PRIOR FILING DATE: 1998-04-23
; PRIOR APPLICATION NUMBER: US 09/298,531
; PRIOR FILING DATE: 1999-04-23
; PRIOR APPLICATION NUMBER: US 09/065,363
; PRIOR FILING DATE: 1998-04-23
; PRIOR APPLICATION NUMBER: US 09/337,930
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/102,705
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: US 09/363,630
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: US 09/124,538
; PRIOR FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 59
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-790-264-67

Query Match          29.6%; Score 75; DB 10; Length 59;
Best Local Similarity 33.3%; Pred. No. 0.036;
Matches 16; Conservative 4; Mismatches 22; Indels 6; Gaps 2;

QY 1 CPNOLS-----PNLWYDAOSTCERECSDQDCAAEKCCINVCGLHSC 43
DB 8 CPKEFEKPGACPKPSPESVIGICVDQCSGDSGSCPGNMKCCSNCG-HVC 54

RESULT 7
US-09-823-038A-38
; Sequence 38, Application US/09823038A
; Patent No. US2002058335A1
; GENERAL INFORMATION:
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Abernethy, Nevin
; APPLICANT: Ontust, Rene
; APPLICANT: Kumble, Anand
; APPLICANT: Murison, Greg
; TITLE OF INVENTION: Compositions Isolated From Stromal Cells
; TITLE OF INVENTION: and Methods For Their Use
; FILE REFERENCE: 11000.1037c3
; CURRENT APPLICATION NUMBER: US/09/823,038A
; CURRENT FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 38
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Mouse
US-09-823-038A-38

Query Match          29.6%; Score 75; DB 10; Length 72;
Best Local Similarity 33.3%; Pred. No. 0.043;
Matches 16; Conservative 4; Mismatches 22; Indels 6; Gaps 2;

QY 1 CPNOLS-----PNLWYDAOSTCERECSDQDCAAEKCCINVCGLHSC 43
```

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DB 21 CPKEFEKPGACPKPSPESVIGICVDQCSGDSGSCPGNMKCCSNCG-HVC 67

RESULT 8
US-09-790-264-56
; Sequence 56, Application US/09790264
; Patent No. US2002028508A1
; GENERAL INFORMATION:
; APPLICANT: Holtzman, Douglas A.
; APPLICANT: Goodearl, Andrew D.J.
; APPLICANT: McCarthy, Sean A.
; TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING
; TITLE OF INVENTION: PROGNASTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER
; TITLE OF INVENTION: USES
; FILE REFERENCE: 07334-322001
; CURRENT APPLICATION NUMBER: US/09/790,264
; CURRENT FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: US 09/065,661
; PRIOR FILING DATE: 1998-04-23
; PRIOR APPLICATION NUMBER: US 09/298,531
; PRIOR FILING DATE: 1999-04-23
; PRIOR APPLICATION NUMBER: US 09/065,363
; PRIOR FILING DATE: 1998-04-23
; PRIOR APPLICATION NUMBER: US 09/337,930
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 09/102,705
; PRIOR FILING DATE: 1998-06-22
; PRIOR APPLICATION NUMBER: US 09/363,630
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: US 09/124,538
; PRIOR FILING DATE: 1998-07-29
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 56
; LENGTH: 76
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: (1)...(17)
US-09-790-264-56

Query Match          29.6%; Score 75; DB 10; Length 76;
Best Local Similarity 33.3%; Pred. No. 0.045;
Matches 16; Conservative 4; Mismatches 22; Indels 6; Gaps 2;

QY 1 CPNOLS-----PNLWYDAOSTCERECSDQDCAAEKCCINVCGLHSC 43
DB 25 CPKEFEKPGACPKPSPESVIGICVDQCSGDSGSCPGNMKCCSNCG-HVC 71

RESULT 9
US-09-924-340-42
; Sequence 42, Application US/09924340
; Publication No. US20030027248A1
; GENERAL INFORMATION:
; APPLICANT: Bejanin, Stephanie
; APPLICANT: Tanaka, Hiroaki
; TITLE OF INVENTION: HUMAN CDNAS AND PROTEINS AND USES THEREOF
; FILE REFERENCE: 91.052.REG
; CURRENT APPLICATION NUMBER: US/09/924,340
; CURRENT FILING DATE: 2001-08-06
; PRIOR APPLICATION NUMBER: US 60/305,456
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/302,277
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: US 60/298,698
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: US 60/293,574
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: Jpatent
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SEQ ID NO 42  
LENGTH: 124  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SIGNAL  
LOCATION: 1..30  
US-09-924-340-42

Query Match  
Best Local Similarity 34.9%; Score 72.5; DB 9; Length 124;  
Matches 15; Conservative 2; Mismatches 23; Indels 3; Gaps 1;

OY 1 CPNOLSPNLWVDAOSTCERCSRDQDCAAEKCCINVCGLHSC 43  
DB 80 CP---QVNINFPQLGLCRDQCQVDSCPGQMKCCRNCGCKYVSC 119

RESULT 10  
US-09-992-600A-42  
; Sequence 42, Application US/09992600A  
; Publication No. US20030027161A1  
; GENERAL INFORMATION:  
; APPLICANT: Benjamin, Stephane  
; TITLE OF INVENTION: HUMAN CNAS AND PROTEINS AND USES THEREOF  
; FILE REFERENCE: 91.US4.DIV  
; CURRENT APPLICATION NUMBER: US/09/992,600A  
; PRIOR FILING DATE: 2001-11-13  
; PRIOR APPLICATION NUMBER: US 09/924,340  
; PRIOR FILING DATE: 2001-08-06  
; PRIOR APPLICATION NUMBER: PCT/IB01/01715  
; PRIOR FILING DATE: 2001-08-06  
; PRIOR APPLICATION NUMBER: US 60/305,456  
; PRIOR FILING DATE: 2001-07-13  
; PRIOR APPLICATION NUMBER: US 60/302,277  
; PRIOR FILING DATE: 2001-06-29  
; PRIOR APPLICATION NUMBER: US 60/298,698  
; PRIOR FILING DATE: 2001-06-15  
; PRIOR APPLICATION NUMBER: US 60/293,574  
; NUMBER OF SEQ ID NOS: 114  
; SOFTWARE: JPatent  
; SEQ ID NO 42  
; LENGTH: 124  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SIGNAL  
; LOCATION: 1..30  
US-09-992-600A-42

Query Match  
Best Local Similarity 28.7%; Score 72.5; DB 9; Length 124;  
Matches 15; Conservative 2; Mismatches 23; Indels 3; Gaps 1;

OY 1 CPNOLSPNLWVDAOSTCERCSRDQDCAAEKCCINVCGLHSC 43  
DB 80 CP---QVNINFPQLGLCRDQCQVDSCPGQMKCCRNCGCKYVSC 119

RESULT 11  
US-09-925-300-1361  
; Sequence 1361, Application US/09925300  
; Patent No. US20020151681A1  
; GENERAL INFORMATION:  
; APPLICANT: Craig Rosen,  
; APPLICANT: Steve Ruben  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: PA101  
; CURRENT APPLICATION NUMBER: US/09/925,300  
; PRIOR FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: PCT/US00/05988

; PRIOR FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: 60/124,270  
; PRIOR FILING DATE: 1999-03-12  
; NUMBER OF SEQ ID NOS: 1890  
; SOFTWARE: Patentln Ver. 2.0  
; SEQ ID NO 1361  
; LENGTH: 137  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-925-300-1361

Query Match  
Best Local Similarity 28.7%; Score 72.5; DB 10; Length 137;  
Matches 15; Conservative 2; Mismatches 23; Indels 3; Gaps 1;

OY 1 CPNOLSPNLWVDAOSTCERCSRDQDCAAEKCCINVCGLHSC 43  
DB 93 CP---QVNINFPQLGLCRDQCQVDSCPGQMKCCRNCGCKYVSC 132

RESULT 12  
US-09-829-155C-3  
; Sequence 3, Application US/09829155C  
; Patent No. US20020155561A1  
; GENERAL INFORMATION:  
; APPLICANT: Thayer, Edward C.  
; TITLE OF INVENTION: Mammalian Disulfide Core Protein-4  
; FILE REFERENCE: 00-29  
; CURRENT APPLICATION NUMBER: US/09/829,155C  
; PRIOR FILING DATE: 2002-04-03  
; PRIOR APPLICATION NUMBER: 60/196,230  
; PRIOR FILING DATE: 2000-04-10  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 3  
; LENGTH: 58  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-829-155C-3

Query Match  
Best Local Similarity 27.3%; Score 69; DB 9; Length 58;  
Matches 15; Conservative 3; Mismatches 18; Indels 4; Gaps 1;

OY 4 QLSPEIKVCCQDPKLYLCKHLCESHRDCQANNICSTYCG 39  
DB 12 QLSPEIKVCCQDPKLYLCKHLCESHRDCQANNICSTYCG 51

RESULT 13  
US-09-829-155C-2  
; Sequence 2, Application US/09829155C  
; Patent No. US20020155561A1  
; GENERAL INFORMATION:  
; APPLICANT: Thayer, Edward C.  
; TITLE OF INVENTION: Mammalian Disulfide Core Protein-4  
; FILE REFERENCE: 00-29  
; CURRENT APPLICATION NUMBER: US/09/829,155C  
; PRIOR FILING DATE: 2002-04-03  
; PRIOR APPLICATION NUMBER: 60/196,230  
; PRIOR FILING DATE: 2000-04-10  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2  
; LENGTH: 79  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-829-155C-2

Query Match  
Best Local Similarity 27.3%; Score 69; DB 9; Length 79;  
Matches 15; Conservative 3; Mismatches 18; Indels 4; Gaps 1;





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## OM protein - protein search, using sw model

Run on: February 20, 2003, 08:09:37 : Search time 8.4208 Seconds

(without alignments)  
478.688 Million cell updates/sec

Title: US-09-819-136-2\_COPY\_412\_548

Perfect score: 704  
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## Scoring table:

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Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

## Database :

Issued Patents, AA:\*

- 1: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pep:\*
- 2: /cgn2\_6/ptodata/1/1aa/5B\_COMB.pep:\*
- 3: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep:\*
- 4: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep:\*
- 5: /cgn2\_6/ptodata/1/1aa/PCITUS\_COMB.pep:\*
- 6: /cgn2\_6/ptodata/1/1aa/Backfilest1.pep:\*

Pred. NO. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	92.5	13.1	317	4	US-08-937-067-6 Sequence 6, Appl1
2	79.5	11.3	311	2	US-08-318-837-7 Sequence 7, Appl1
3	79.5	11.3	415	4	US-09-033-523-2 Sequence 2, Appl1
4	79.5	11.2	295	4	US-08-937-067-2 Sequence 2, Appl1
5	72.5	10.3	292	4	US-09-323-872A-35 Sequence 35, Appl1
6	72.5	10.3	334	6	Patent No. 5290690-11 Sequence 8, Appl1
7	70.5	10.0	754	4	US-09-276-400-8 Sequence 8, Appl1
8	70.5	10.0	754	4	US-09-448-076-8 Sequence 8, Appl1
9	70.5	10.0	754	4	US-09-702-572-8 Sequence 8, Appl1
10	69.5	9.9	311	2	US-08-318-837-9 Sequence 9, Appl1
11	68.5	9.7	1452	4	US-09-127-227-2 Sequence 2, Appl1
12	68	9.7	449	2	US-08-839-008-2 Sequence 2, Appl1
13	68	9.7	449	2	US-08-839-008-9 Sequence 2, Appl1
14	66	9.4	431	4	US-09-134-001C-4257 Sequence 4257, Ap
15	65.5	9.3	899	1	US-08-365-689-2 Sequence 2, Appl1
16	65.5	9.3	899	1	US-08-145-138A-2 Sequence 2, Appl1
17	65.5	9.3	933	1	US-07-747-781-2 Sequence 2, Appl1
18	65.5	9.3	933	1	PCR-US92-06888-2 Sequence 2, Appl1
19	65	9.2	2938	5	PCR-US94-00198-3 Sequence 3, Appl1
20	65	9.2	4545	2	US-08-804-227C-14 Sequence 14, Appl1
21	65	9.2	4550	2	US-08-804-227C-8 Sequence 8, Appl1
22	65	9.2	4550	2	US-08-804-198-2 Sequence 2, Appl1
23	64	9.1	603	3	US-08-482-677-8 Sequence 8, Appl1
24	64	9.1	1045	1	US-08-452-083-2 Sequence 2, Appl1
25	63	8.9	236	4	US-09-049-672A-13 Sequence 13, Appl1
26	63	8.9	460	4	US-09-647-540A-2 Sequence 2, Appl1
27	63	8.9	529	1	US-08-152-019A-40 Sequence 40, Appl1

28	63	8.9	529	3	US-08-650-599A-3 Sequence 3, Appl1
29	63	8.9	529	4	US-09-490-517-3 Sequence 3, Appl1
30	62.5	8.9	685	4	US-09-031-563-21 Sequence 21, Appl1
31	62.5	8.9	685	4	US-09-392-277-21 Sequence 21, Appl1
32	62.5	8.9	740	4	US-09-624-693A-15 Sequence 15, Appl1
33	62.5	8.9	744	2	US-08-462-080B-2 Sequence 2, Appl1
34	62.5	8.9	744	3	US-08-462-090-2 Sequence 2, Appl1
35	62.5	8.9	744	3	US-08-463-461-2 Sequence 2, Appl1
36	62.5	8.9	1055	3	US-09-031-563-27 Sequence 27, Appl1
37	62.5	8.9	1055	4	US-09-392-277-27 Sequence 27, Appl1
38	62.5	8.9	1077	4	US-09-412-210-1 Sequence 1, Appl1
39	62.5	8.9	1315	3	US-09-031-563-2 Sequence 2, Appl1
40	62.5	8.9	1315	3	US-09-031-563-25 Sequence 25, Appl1
41	62.5	8.9	1315	4	US-09-293-505-10 Sequence 10, Appl1
42	62.5	8.9	1315	4	US-09-392-277-2 Sequence 2, Appl1
43	62.5	8.9	1315	4	US-09-392-277-25 Sequence 25, Appl1
44	62	8.8	377	4	US-09-420-211-2 Sequence 2, Appl1
45	62	8.8	4472	2	US-08-804-227C-2 Sequence 2, Appl1

## ALIGNMENTS

RESULT 1  
US-08-937-067-6Sequence 6, Application US/08937067  
Patent No. 643315

GENERAL INFORMATION:

APPLICANT: Umansky, Samuil

TITLE OF INVENTION: A FAMILY OF GENES ENCODING

TITLE OF INVENTION: APOPTOSIS-RELATED PEPTIDES, PEPTIDES ENCODED THEREBY AND

METHODS OF USE THEREOF

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESSES:

ADDRESSEE: MORRISON &amp; FOERSTER

STREET: 755 Page Mill Road

CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94304-1018

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/937,067

FILING DATE:

CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

NAME: Lehnhardt, Susan K.

REGISTRATION NUMBER: 33,943

REFERENCE/DOCKET NUMBER: 23647-20018.00

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 813-5600

TELEFAX: (650) 494-0792

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 317 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-937-067-6

Query Match 13.1% Score 92.5; DB 4; Length 317;  
Best Local Similarity 26.8%; Pred. No. 0.0036;  
Matches 37; Conservative 18; Mismatches 76; Indels 7; Gaps 4;

QY 1 PRTPCRACRKRSLALSLC...KILELEKQACELLRPD 57  
DB 176 PVTKICAGCEMEHSDGLMEQKMSDFVVKMKRIKIKENGDRKLGAGQKKKLLKPGP- 234

QY 58 GLKFLGTLYEVLTSQMDWACPCPNMTAGDGPLVINGEVRDGVAVLDAGSYRAASEKV 117  
| | | | | : : : : : | | | | | : : : : :  
Db 235 -LKRKFTKRLVLMKN-GAGCCPCQPLDLSLGSFLVWGRVDCQLLMA-VYRWKKNKM 291  
QY 118 KILILELEKQACELLNRF 135  
| : : : : |  
Db 292 KFAVKMFESYPCSLTYPF 309

## RESULT 2

US-08-318-837-7  
; Sequence 7, Application US/08318837  
; Patent No. 5981277  
; GENERAL INFORMATION:  
; APPLICANT: FRANKSEN, LUCIA; DEVOS, KATHLEEN; VAN DE VOORDE,  
; APPLICANT: ANDRE; VAN HEUVERSWYN, HUGO  
; TITLE OF INVENTION: NEW POLYPEPTIDES AND PEPTIDES, NUCLEIC ACID  
; TITLE OF INVENTION: CODING FOR THEM, AND THEIR USE IN THE FIELD OF TUMOR THERAPY  
; NUMBER OF SEQUENCES: 53  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: BIERMAN AND MUSELLIAN  
; STREET: 600 THIRD AVENUE  
; CITY: NEW YORK  
; STATE: NEW YORK  
; COUNTRY: USA  
; ZIP: 10016  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: ASCII  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/318,837  
; FILING DATE: 13-OCT-1994  
; CLASSIFICATION: 800  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/EP 93/01022  
; FILING DATE: 28-APR-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 92,401,231.3  
; FILING DATE: 30-APR-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: CHARLES A. MUSELLIAN  
; REGISTRATION NUMBER: 19,683  
; REFERENCE/DOCKET NUMBER: 410,007  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (212) 661-8002  
; TELEFAX: (212) 661-8000  
; INFORMATION FOR SEQ ID NO: 7:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 311 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-318-837-7

Query Match 11.3%; Score 79.5; DB 2; Length 311;  
Best local Similarity 44.1%; Pred. No. 0.14;  
Matches 15; Conservative 8; Mismatches 10; Indels 1; Gaps 1;

QY 5 PCRACRLRSKIALSLCSDFAIYGRLEVELEPEEP 38  
| | | | | : : : : : | | | | | : : : : :  
Db 187 PCRPCS-DTEVLLAVCHSDFAVRGSIQOYVTHEPE 219

RESULT 3  
US-09-032-523-2  
; Sequence 2, Application US/09032523  
; Patent No. 6232454  
; GENERAL INFORMATION:  
; APPLICANT: Bandman, Olga  
; APPLICANT: Hillman, Jennifer L.  
; ADDRESS: Hillman, Jennifer L.

APPLICANT: Corley, Neil C.  
APPLICANT: Guegler, Karl  
APPLICANT: Baugh, Mariah  
TITLE OF INVENTION: HUMAN PROTEINASE MOLECULES  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/032,523  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0479 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555  
TELEFAX: 650-845-4166  
TELEX:  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 415 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: RATRNOT02  
CLONE: 947429  
US-09-032-523-2

Query Match 11.3%; Score 79.5; DB 4; Length 415;  
Best local Similarity 24.8%; Pred. No. 0.2;  
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

QY 1 PRTPPC-RACRLRSKIALSLCSDFAIYGRLEVELEPEAAGI-ARVALEDYLDKDKMG 58  
| | | | | : : : : : | | | | | : : : : :  
Db 292 PVALCOQKCRRTGTLEGNCSDFVLAGTVITITRD--GSLHATVSIINIKFGNLA 348

QY 59 LKFLGTLYEVLTSQMDWAC-PCPNMTAGDGPLVINGEVRDGVAVLDAGSYRAASEKV 116  
| | | | | : : : : : | | | | | : : : : :  
Db 349 IQQAG-KNMSARLTIV---CKQCPLLRGLN-YIIMGVGEDGRKIMNSFLMERTKN 403

QY 117 VKKILELEKQAC 129  
| | | | | : : : : : | | | | | : : : : :  
Db 404 -QKLDLAKNKKQ 415

RESULT 4  
US-08-937-067-2  
; Sequence 2, Application US/08937067  
; Patent No. 6433155  
; GENERAL INFORMATION:  
; APPLICANT: Umansky, Samuel  
; APPLICANT: Melkonian, Hovsep  
; TITLE OF INVENTION: A FAMILY OF GENES ENCODING  
; TITLE OF INVENTION: APOPTOSIS-RELATED PEPTIDES, PEPTIDES ENCODED THEREBY AND  
; NUMBER OF SEQUENCES: 19  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: MORRISON & FOERSTER

```

Query Match 11.2%; Score 79; DB 4; Length 295;
Best Local Similarity 21.7%; Pred. No. 0.15;
Matches 31; Conservative 28; Mismatches 46; Indels 38; Gaps

OY 6 CRACLRASK-----LALSICRSDPAI-----VGRLEVELEPEA-----AGGIARVA 47
Db 172 CEACKTKNEDNDIMETLCKNDNFALKIKVKEITYINRDTKILLETSKSYTKLNGVS--- 228
OY 48 LEDVKKDDKMGKIKFLGTYYLEVTLSGMMACPCPMWTAGDGLVYMGEVRGQVAVIDAGS 107
Db 229 -ERDLKSKVNLK-----DSLQTCCEMNDINAPYLVAGKQSGELYIT--S 272
OY 108 YVR-AASEKRVKKILELEKQAC 129
Db 273 VKRMOKGQREFKRISRSIRKLQC 295

RESULT 5
US-09-323-872A-35
; Sequence 35, Application US/09323872A
; Patent No. 6395339
; GENERAL INFORMATION:
; APPLICANT: Coschigano, Peter
; TITLE OF INVENTION: Compositions and Methods for Bioremediation
; FILE REFERENCE: OHU-03640
; CURRENT APPLICATION NUMBER: US/09/323,872A
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 09/072,433
; PRIOR FILING DATE: 1998-05-04
; NUMBER OF SEQ ID NOS: 58
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 35
; LENGTH: 292
; TYPE: PRT
; ORGANISM: Escherichia coli
US-09-323-872A-35

Query Match 10.3%; Score 72.5; DB 4; Length 292;
Best Local Similarity 23.8%; Pred. No. 0.9;
Matches 38; Conservative 20; Mismatches 51; Indels 51; Gaps

OY 20 CRSDPAIYGRLEVELEPEA-----AGGIARV-----ALF-DVLKDKM 57
Db 54 CANPESISGKIQTIVARRKAKCLHCACAKCLRDADCECPGSAFERIGRDISLDALEBYMKDD-- 111

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Query Match          10.3%; Score 72.5; DB 6; Length 334;
Best Local Similarity 25.7%; Pred. No.1.1;
Matches 29; Conservative 20; Mismatches 55; Indels 9; Gaps 3.

Oy      19  ICRSDFAIYGRLT---EVLPEEPAAGIARVALLEDVLDKDDKGLKFLGTAKYLEV--TLSG 73
          :  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db      169 IYRGMMTYVGSTTNNQRIIDLPKRLRGARRAAEESIPTTGAANAVALVLPDLKGLKNG 228
Oy      74  MDWACPPTMTAGDGPLVYIMGEVRDGVAVLDAGSYVRAASEKRVKLTLELLEK 126
          :  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db      229 MAMRVPPTNVSVD---LVAELEKEVYEEVNAALKAAREGELKGIILAYSEE 277

RESULT 7
US-09-276-400-8
; Sequence 8, Application US/09276400
; Patent No. 6140056
; GENERAL INFORMATION:
; APPLICANT: Rhodadoust, Mehran
; TITLE OF INVENTION: NOVEL MSP-18 PROTEIN AND NUCLEIC ACID MOLECULES AND
; TITLE OF INVENTION: USES THEREFOR
; FILE REFERENCE: MNI-073
; CURRENT APPLICATION NUMBER: US/09/276,400
; CURRENT FILING DATE: 1999-03-25
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 8
; LENGTH: 754
; TYPE: PRT
; ORGANISM: murine lysyl oxidase-related protein
US-09-276-400-8

Query Match          10.0%; Score 70.5; DB 4; Length 754;
Best Local Similarity 38.9%; Pred. No.5.8;
Matches 21; Conservative 2; Mismatches 24; Indels 7; Gaps 2.

Oy      37  PEAGGIARVALLEDVLDKDDKGLKFLGTAKYLEVTLSGMD---MACPCPMTAGD 87
          :  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
Db      347 PELGGTAREALSGARMGCGMGAIRHLS---EYRCSGGPEPSIMRCPSKNITLAD 396

RESULT 8
US-09-448-076-8
; Sequence 8, Application US/09448076
; Patent No. 6300092
; GENERAL INFORMATION:
; APPLICANT: Rhodadoust, Mehran et al.
; TITLE OF INVENTION: METHODS OF USE OF A NOVEL LYSYL OXIDASE-RELATED PROTEIN

```

```

Query Match          9.7%; Score 68.5; DB 4; Length 1452;
Best Local Similarity 29.18; Pred. No. 25;
Matches 44; Conservative 15; Mismatches 51; Indels 41; Gaps 9;

07 5 PCRARLRSK-----TALSLCRSDFAIVGTLTVLEELPEEPAGGIANVALEDKD- 54
   || : : : ||||| ||| : : : ||| : ||| :

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Db 665 PCPLLQILGRSRNLANVYDDLLSLQGHVFA--GQSV-----GRNRNRFQPYLRNR 714
Oy 55 --DKAKFLGTGYLEVTLISGMDMACPC-PNMTA-----GDGEVIMG---EVR 97
Db 715 VMDMNNFNFLSAKTLTVALS--EGAALCAPSLTGAQTAPAESSEFGDVARYTLGFPKELR 772
Oy 98 DGVAVLDAGSVYRA--ASEKRYKLTLELEK 126
Db 773 VKSRVLFAGASANAASEAKARVASLQSAVOK 803

RESULT 12
US-08-839-008-2
; Sequence 2, Application US/08839008
; Patent No. 5916758
; GENERAL INFORMATION:
; APPLICANT: Hurle, Mark R
; APPLICANT: McDonnell, Peter C
; APPLICANT: McNulty, Dean E
; APPLICANT: Rosen, Craig A
; APPLICANT: Siemens, Ivo R
; APPLICANT: Young, Peter R
; APPLICANT: Yue, Tian-Li
; TITLE OF INVENTION: Smooth Muscle Cell-Derived Migration Factor
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: SmithKline Beecham Corporation
; STREET: 709 Swedeland Road
; CITY: King of Prussia
; STATE: PA
; COUNTRY: USA
; ZIP: 19406
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/839,008
; FILING DATE: 23-APR-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/563,697
; FILING DATE: 28-NOV-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Baumeister, Kirk
; REGISTRATION NUMBER: 33,833
; REFERENCE/DOCKET NUMBER: P00384
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-270-5090
; TELEFAX: 610-270-5096
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 449 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-839-008-2

Query Match 9.7%, Score 68; DB 2; Length 449;
Best Local Similarity 23.4%; Pred. No. 5.8;
Matches 34; Conservative 14; Mismatches 61; Indels 36; Gaps 7,

Oy 1 PRTPPC-HACNLRSKLSLASCSDPAIYGRLEVELEEPBAGIARVALLEDVTKDDKML 59
Db 313 PDAPCPCPQCRRTGTGLQSNFCASSLIVATAYKSMVREP-GEGLAVTVSLIGAYK----- 365
Oy 60 KFLGTGYLEVTLISGMDMACP-----CPNMTAGDGPLVIMGEDVAV-YLD 104
Db 366 -----TGGDLDPSPRTGASLAKRYVPCKQCPMKKKGVSYL-LMQQVLEENGPVLP 413
Oy 105 AGSVYRAASEKRYKLTLELEKQAC 129

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Db      14         PESFV-VLHRPNODIITNLSKRC          437

                                :| |   | | :   | 
RESULT 13
US-08-839-008-9
Sequence 9, Application US/08839008
Patent No. 5916758
GENERAL INFORMATION:
APPLICANT: Hurle, Mark R
APPLICANT: McDonnell, Peter C
APPLICANT: McNulty, Dean E
APPLICANT: Rosen, Craig A
APPLICANT: Siemens, Ivo R
APPLICANT: Young, Peter R
TITLE OF INVENTION: Smooth Muscle Cell-Derived Migration Factor
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Smithkline Beecham Corporation
STREET: 709 Swedeland Road
CITY: King of Prussia
STATE: PA
COUNTRY: USA
ZIP: 19406
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MX-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/839,008
FILING DATE: 23-Apr-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/563,697
FILING DATE: 28-Nov-1995
ATTORNEY/AGENT INFORMATION:
NAME: Baumelster, Kirk
REGISTRATION NUMBER: 33,833
REFERENCE/DOCKET NUMBER: P50384
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-5096
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 449 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-839-008-9

Query Match                9.7%: Score 68; DB 2; Length 449;
Best Local Similarity    23.4%, Pred. No. 5.8;
Matches     34; Conservative 14; Mismatches 61; Indels 36; Gaps 7;

QY       1 PRTPCC-RACRLRSKLATSLCRSDPAIVGRILEVEEEDPAAAGGIAARVALLEDVLKDCKMGL 59
        |||||:|||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB      313 PDAPPCPQCRRGTGTGSNFCASSLVATAVKSMWREP-GEGLAVTASLIIGAYK----- 365
        |||||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY       60 KFLGTYLEVTLTSGMDMACP-----CPNNTAGDGPLVIINGEVARDGA-VLD 104
        |||||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB      366 -----TGGDJLPPTPGASTLKRYVPCKKCPRPKKGVSYL-LMGQYEENGPVLR 413
        |||||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|

QY       105 AGSYVARASEKRKKYLEELKEQAQ 129
        |:|           ::||  |:|
DB      414 PESFY-VLHARNODOILTNLSKRC 437

```

```

; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; PRIOR FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4257
; LENGTH: 431
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
; US-09-134-001C-4257

```

```

Query Match          9.4%; Score 66; DB 4; Length 431;
Best Local Similarity 24.0%; Pred. No. 9.6;
Matches 29; Conservative 20; Mismatches 54; Indels 18; Gaps 4;

```

```

QY 23 DPAIVGRLEVELEPEAAG---IARVALEDVLDK-----DKMGLKFLGTXYLEVTLSGM 74
Db 173 DFPVGATONIMASLASGSIENVAKEPEIVDLANYINMGSKITGAGDTITIHGV 232
QY 75 DWACCPMMWTAGD---GPIVIMGEVRDGVAVLDAGSVRAASEKRVKILELEKQACE 130
Db 233 EKLYVEVAIITPDRIEAGTLIAGAITRG-----DIVRGAIKHMASLIYKILEMGVD 286
QY 131 L 131
Db 287 L 287

```

```

RESULT 15
US-08-365-689-2
; Sequence 2, Application US/08365689
; Patent No. RE35823
; GENERAL INFORMATION:
; APPLICANT: Nabel, Gary J.
; APPLICANT: Schmid, Roland M.
; APPLICANT: Perkins, Neil D.
; TITLE OF INVENTION: PROTEINS USEFUL IN THE REGULATION OF
; TITLE OF INVENTION: KAPPA-B-CONTAINING GENES, CORRESPONDING DNA AND RNA
; TITLE OF INVENTION: SEQUENCES, AND VECTORS AND CELLS CONTAINING SAME
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
; ADDRESSEE: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
; CITY: Arlington
; STATE: Virginia
; ZIP: 22202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/365,689
; FILING DATE: Filed herewith
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/145,138
; FILING DATE: 12-DEC-1993
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/747,781
; FILING DATE: 21-AUG-1991
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:

```

```

; NAME: Iavalleve, Jean-Paul M.P.
; REGISTRATION NUMBER: 31,451
; REFERENCE/DOCKET NUMBER: 2363-096-55 REISSUE
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)413-3000
; TELEFAX: (703)413-2220
; TELEX: 248855 OPAT UR
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 899 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; US-08-365-689-2

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Query Match          9.3%; Score 65.5; DB 1; Length 899;
Best Local Similarity 25.4%; Pred. No. 30;
Matches 35; Conservative 21; Mismatches 49; Indels 33; Gaps 7;

```

```

QY 1 PRTPCRCRKRSLALSLSRSDPAIVGRLEVELEPEAAGIARVALEDVLDKDKMGLK 60
Db 757 PLRTP-----SPAGPLSLGDTAL-ONLEQLLDGPEAQSMAELA-----ERIGLR 801
QY 61 FLGTXYLEVT-----LSGMDWAC---PCPNMTAGGPLYING-EVRD---GVAV 102
Db 802 SLVDYIRGTSPSGSLRSYELAGDLAGLEALSDMGLGEGVRLRGPTKRLPSTEV 861
QY 103 LDAGSYVRAASEKRVKTI 120
Db 862 KEDSAYGSQSVGEAEKEL 879

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Search completed: February 20, 2003, 08:22:32
Job time : 10.4208 secs

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GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: February 20, 2003, 08:21:07 : Search time 5.66785 Seconds  
(without alignments)  
617.353 Million cell updates/sec

Title: US-09-819-136-2\_COPY\_412\_548

Perfect score: 704  
Sequence: 1 PRTPPCRACRLRSKLSLSC.....KIIELLEKQACELNRRFD 137

Scoring table:  
BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 140259 seqs, 25548876 residues

Total number of hits satisfying chosen parameters: 140259

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Published\_Applications\_AA:\*  
1: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB pep.\*  
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3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB pep.\*  
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8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB pep.\*  
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10: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB pep.\*  
11: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB pep.\*  
12: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB pep.\*  
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14: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	704	100.0	548	US-09-819-136-2	Sequence 2, Appli
2	379	55.8	576	US-09-794-589-2	Sequence 2, Appli
3	92.5	13.1	317	US-10-146-474-6	Sequence 6, Appli
4	79.5	11.3	144	US-09-800-729-143	Sequence 143, App
5	79.5	11.3	294	US-09-800-729-146	Sequence 146, App
6	79.5	11.3	294	US-10-067-432-12	Sequence 12, Appli
7	79.5	11.3	415	US-09-905-291A-104	Sequence 104, App
8	79.5	11.3	415	US-09-902-853-104	Sequence 104, App
9	79.5	11.3	415	US-09-907-824-104	Sequence 104, App
10	79.5	11.3	415	US-09-907-824-104	Sequence 104, App
11	79.5	11.3	415	US-09-904-011-104	Sequence 104, App
12	79.5	11.3	415	US-09-906-742-104	Sequence 104, App
13	79.5	11.3	415	US-09-906-838-104	Sequence 104, App
14	79.5	11.3	415	US-09-907-613-104	Sequence 104, App
15	79.5	11.3	415	US-09-907-942-104	Sequence 104, App
16	79.5	11.3	415	US-09-909-320-104	Sequence 104, App
17	79.5	11.3	415	US-09-909-088B-104	Sequence 104, App
18	79	11.2	295	US-09-934-483A-1	Sequence 1, Appli
19	79	11.2	295	US-09-934-483A-5	Sequence 5, Appli

20	79	11.2	295	9	US-10-146-474-2	Sequence 2, Appli
21	75.5	10.7	760	9	US-09-712-363-292	Sequence 292, App
22	75	10.7	295	9	US-09-978-295A-415	Sequence 415, App
23	75	10.7	295	9	US-09-981-876-179	Sequence 179, App
24	75	10.7	295	9	US-09-978-697-415	Sequence 415, App
25	75	10.7	295	9	US-09-978-192A-415	Sequence 415, App
26	75	10.7	295	9	US-09-999-832A-415	Sequence 415, App
27	75	10.7	295	9	US-09-978-189-415	Sequence 415, App
28	75	10.7	295	9	US-09-148-545-179	Sequence 179, App
29	75	10.7	296	9	US-09-981-876-237	Sequence 237, App
30	75	10.7	296	9	US-09-148-545-237	Sequence 237, App
31	74	10.5	721	10	US-09-727-801-14	Sequence 14, Appli
32	71	10.1	501	9	US-09-738-626-608A	Sequence 608A, Ap
33	70.5	10.0	166	9	US-09-738-626-5198	Sequence 5198, Ap
34	70.5	10.0	754	10	US-09-782-980-17	Sequence 17, Appli
35	70.5	10.0	754	10	US-09-909-743-8	Sequence 8, Appli
36	68.5	9.7	1452	12	US-10-050-673-2	Sequence 2, Appli
37	68	9.7	449	10	US-09-919-497-89	Sequence 89, Appli
38	68	9.7	458	10	US-09-925-301-1282	Sequence 1282, Ap
39	67	9.5	440	10	US-09-764-853-594	Sequence 594, App
40	67	9.5	449	10	US-09-764-853-577	Sequence 577, App
41	67	9.5	563	9	US-09-738-626-6543	Sequence 6643, Ap
42	66.5	9.4	246	9	US-09-738-626-5793	Sequence 5793, Ap
43	66.5	9.4	690	9	US-10-068-059-10	Sequence 10, Appli
44	66.5	9.4	743	10	US-09-771-161A-164	Sequence 164, App
45	66.5	9.4	743	10	US-09-771-161A-254	Sequence 254, App

#### ALIGNMENTS

```
RESULT 1
US-09-819-136-2
; Sequence 2, Application US/09819136
; Patent No. US20020146789A1
; GENERAL INFORMATION:
; APPLICANT: Konklin, Darrell C.
; APPLICANT: Gao, Zeren
; TITLE OF INVENTION: MULTI-DOMAIN PROTEINASE INHIBITOR
; FILE REFERENCE: 00-25
; CURRENT APPLICATION NUMBER: US/09/819,136
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/193,642
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 548
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-819-136-2

Query Match      100.0%; Score 704; DB 10; Length 548;
Best Local Similarity 100.0%; Pred. No. 7.6e-72;
Matches 137; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 PRTPPCRACRLRSKLSLSCRSDFALVGRITVELEBPAAAGCIARVALDEYLDKDKMGK 60
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DB      412 PRTPPCRACRLRSKLSLSCRSDFALVGRITVELEBPAAAGCIARVALDEYLDKDKMGK 471
      |||
QY      61 FLGTKLEVTYLSGMDACCPNNMTAGDPLVIMGEVTRDGVAVLDAGSYRAASEKRYKKI 120
      |||
DB      472 FLGTKLEVTYLSGMDACCPNNMTAGDPLVIMGEVTRDGVAVLDAGSYRAASEKRYKKI 531
      |||
QY      121 LELLEKQACELNRRFD 137
      |||
DB      532 LELLEKQACELNRRFD 548

RESULT 2
US-09-794-589-2
; Sequence 2, Application US/09794589
; Patent No. US20020004224A1
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; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN8
; FILE REFERENCE: 00-01
; CURRENT APPLICATION NUMBER: US/09/794,589
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/186,069
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 576
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-794-589-2

Query Match          53.8%; Score 379; DB 10; Length 576;
Best Local Similarity 54.6%; Pred. No. 5.9e-35;
Matches 71; Conservative 28; Mismatches 29; Indels 2; Gaps 1;

QY 6 CRACRLRSKLALSLCRSDFAIVGRLEVELEPEAAGIARVALLEDVLDKDKMGLKFLGTK 65
DB 445 CRACKPRKQKIVTSFRCRSPFVLIGRYSLETERPDS--GRALVTVDVLDKDKMGLFLGQE 502
QY 66 YLEVTLSGMDNACPCPNMTAGDGPLVINGEVRDGVAVLDAGSYVRAASEKRVKILLEDLE 125
DB 503 PLEVTLHVDNACPCPNVTSEMPILINGEVDGKAMLRPDSFVGASSARVRKLRLEVYMH 562
QY 126 KOACELNRF 135
DB 563 KKTCDVLEKF 572

RESULT 3
; US-10-146-474-6
; Sequence 6, Application US/10146474
; Publication No. US20030023061A1
; GENERAL INFORMATION:
; APPLICANT: Umansky, Samuil
; Melkonyan, Hovsep
; TITLE OF INVENTION: A FAMILY OF GENES ENCODING
; APOPTOSIS-RELATED PEPTIDES; PEPTIDES ENCODED THEREBY AND
; METHODS OF USE THEREOF
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: MORRISON & FOERSTER
; STREET: 755 Page Mill Road
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304-1018
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/146,474
; FILING DATE: 14-May-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/937,067
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Leinhardt, Susan K.
; REGISTRATION NUMBER: 33,943
; REFERENCE/DOCKET NUMBER: 23647-20018.00
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 813-5600
; TELEFAX: (650) 494-0792
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 317 amino acids

```

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; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 6:
; US-10-146-474-6

Query Match          13.1%; Score 92.5; DB 9; Length 317;
Best Local Similarity 26.8%; Pred. No. 0.0084;
Matches 37; Conservative 18; Mismatches 76; Indels 7; Gaps 4;

QY 1 PRTPPCRACRLRSK--LALSLCRSDFAIVGRLEVELEPEAAGIARVALLEDVLDKDKM 57
DB 176 PVTAKICAQCEMEHSHADGIMEGMCSDFVYKRIKEIKIENDRRLIAQKKKILKRGCP- 234
QY 58 GLKFLGTRKYLEVTLSGMDNACPCPNMTAGDGPLVINGEVRDGVAVLDAGSYVRAASEKRV 117
DB 235 -LKRBDKTRVLHMKN-GAGCPCPOLDSLAGSFLVMGRKVDGQLLMA-VYRMDKKNKM 291
QY 118 KKIIELEKQACELNRF 135
DB 292 KFAVKFMFSTPCSLYTFP 309

RESULT 4
; US-09-800-729-143
; Sequence 143, Application US/09800729
; Patent No. US20020068319A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044P1
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 143
; LENGTH: 144
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-800-729-143

Query Match          11.3%; Score 79.5; DB 10; Length 144;
Best Local Similarity 24.8%; Pred. No. 0.088;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

QY 1 PRTPPC-RACRLRSKLALSLCRSDFAIVGRLEVELEPEAAGI-ARVALLEDVLDKDKMG 58
DB 21 PTVALLCOQKCRRTGLGNVCSSDFVLAGVITITIRD--GSLHATVSIINLYKGNLA 77
QY 59 LKFLGTRKYLEVTLSGMDNAC-PCPNMTAGDGPLVINGEVRDGVAVLDAGSYVRAASEKRV 116
DB 78 IQQAG-KNMSARLTIV--CKQCPILLRGLN-YIIMGVGEDGRKIMNSFIMFEKTKN 132
QY 117 VKKILELEKQAC 129
DB 133 -QKLDALAKNKQC 144

RESULT 5
; US-09-800-729-146
; Sequence 146, Application US/09800729
; Patent No. US20020068319A1
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044P1
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013

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;; PRIOR FILING DATE: 2000-09-22  
;; PRIOR APPLICATION NUMBER: 60/155,709  
;; PRIOR FILING DATE: 1999-09-24  
;; NUMBER OF SEQ ID NOS: 217  
;; SOFTWARE: Patentln Ver. 2.0  
;; SEQ ID NO 146  
;; LENGTH: 294  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
;; FEATURE:  
;; NAME/KEY: SITE  
;; LOCATION: (93)  
;; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
;; NAME/KEY: SITE  
;; LOCATION: (97)  
;; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-800-729-146

Query Match 11.3%; Score 79.5; DB 10; Length 294;  
Best Local Similarity 24.8%; Pred. No. 0.23;  
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

Qy 1 PRTPPC-RACRLRSKIALSLCRSDFAIVGRLEVEEPEAGCI-ARYALEVDLKDCKG 58  
Db 171 PTVALCQCKCRRTGTLEGNYSDFVLAGVTITTRD---GSLHATVSIITIKYEGNLA 227  
Qy 59 LKFLCTKYLEVTLSGMDNAC-PCPNMTAGDGPLVIMGEY-RDGVAVLDAGSTVRAASEKR 116  
Db 228 IQOAG-KNMSARLTIVV---CKOCPLLRRLN-YIIMGVGEDGRGKIMPNSEIMFKTKN 282  
Qy 117 VKKILELEKQAC 129  
Db 283 -OKLIDLAKNKOC 294

RESULT 6  
US-10-067-422-12  
;; Sequence 12, Application US/10067422  
;; Patent No. US2002013170A1  
;; GENERAL INFORMATION:  
;; APPLICANT: NI et al.  
;; TITLE OF INVENTION: Bone Morphogenic Protein (BMP) Polynucleotides, Polypeptides, and  
;; FILE REFERENCE: PRT004P1  
;; CURRENT APPLICATION NUMBER: US/10/067,422  
;; PRIOR APPLICATION NUMBER: 2002-02-07  
;; PRIOR FILING DATE: 2000-10-11  
;; PRIOR APPLICATION NUMBER: PCT/US00/09028  
;; PRIOR FILING DATE: 2000-04-06  
;; PRIOR APPLICATION NUMBER: 60/152,933  
;; PRIOR FILING DATE: 1999-09-09  
;; PRIOR APPLICATION NUMBER: 60/147,020  
;; PRIOR FILING DATE: 1999-08-03  
;; PRIOR APPLICATION NUMBER: 60/131,672  
;; PRIOR FILING DATE: 1999-04-29  
;; PRIOR APPLICATION NUMBER: 60/130,693  
;; PRIOR FILING DATE: 1999-04-23  
;; NUMBER OF SEQ ID NOS: 32  
;; SOFTWARE: Patentln Ver. 2.0  
;; SEQ ID NO 12  
;; LENGTH: 294  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
;; FEATURE:  
;; NAME/KEY: SITE  
;; LOCATION: (93)  
;; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
;; NAME/KEY: SITE  
;; LOCATION: (97)  
;; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-10-067-422-12

Query Match 11.3%; Score 79.5; DB 12; Length 294;  
Best Local Similarity 24.8%; Pred. No. 0.23;  
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

Qy 1 PRTPPC-RACRLRSKIALSLCRSDFAIVGRLEVEEPEAGCI-ARYALEVDLKDCKG 58  
Db 171 PTVALCQCKCRRTGTLEGNYSDFVLAGVTITTRD---GSLHATVSIITIKYEGNLA 227  
Qy 59 LKFLCTKYLEVTLSGMDNAC-PCPNMTAGDGPLVIMGEY-RDGVAVLDAGSTVRAASEKR 116  
Db 228 IQOAG-KNMSARLTIVV---CKOCPLLRRLN-YIIMGVGEDGRGKIMPNSEIMFKTKN 282  
Qy 117 VKKILELEKQAC 129  
Db 283 -OKLIDLAKNKOC 294

RESULT 7  
US-09-905-291A-104  
;; Sequence 104, Application US/09905291A  
;; Patent No. US20020160374A1  
;; GENERAL INFORMATION:  
;; APPLICANT: Genentech, Inc.  
;; APPLICANT: Asphenazi, Avi  
;; APPLICANT: Botstein, David  
;; APPLICANT: Desnoyers, Luc  
;; APPLICANT: Eaton, Dan L.  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Filvaroff, Ellen  
;; APPLICANT: Fong, Sherman  
;; APPLICANT: Gao, Wei-Qiang  
;; APPLICANT: Gerber, Hanspeter  
;; APPLICANT: Gertlisen, Mary E.  
;; APPLICANT: Goddard, A.  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Grimaldi, Christopher J.  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Hillan, Kenneth, J.  
;; APPLICANT: Kijavlin, Ivar J.  
;; APPLICANT: Mather, Jennie P.  
;; APPLICANT: Pan, James  
;; APPLICANT: Paoni, Nicholas F.  
;; APPLICANT: Roy, Margaret Ann  
;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Williams, P. Mickey  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE REFERENCE: 10466-14  
;; CURRENT APPLICATION NUMBER: US/09/905,291A  
;; PRIOR APPLICATION NUMBER: 2001-07-12  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: 2000-02-22  
;; PRIOR APPLICATION NUMBER: 60/143,048  
;; PRIOR FILING DATE: 1999-07-07  
;; PRIOR APPLICATION NUMBER: US 60/145,698  
;; PRIOR FILING DATE: 1999-07-26  
;; PRIOR APPLICATION NUMBER: US 60/146,222  
;; PRIOR FILING DATE: 1999-07-28  
;; PRIOR APPLICATION NUMBER: PCT/US99/20594  
;; PRIOR FILING DATE: 1999-09-08  
;; PRIOR APPLICATION NUMBER: PCT/US99/20944  
;; PRIOR FILING DATE: 1999-09-13  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: 1999-09-15  
;; PRIOR APPLICATION NUMBER: PCT/US99/21547  
;; PRIOR FILING DATE: 1999-09-15  
;; PRIOR APPLICATION NUMBER: PCT/US99/23089  
;; PRIOR FILING DATE: 1999-10-05  
;; PRIOR APPLICATION NUMBER: PCT/US99/28214  
;; PRIOR FILING DATE: 1999-11-29  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313

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;; PRIOR FILING DATE: 1999-11-30
;; PRIOR APPLICATION NUMBER: PCT/US99/28564
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; PRIOR FILING DATE: 2000-01-05
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 104
;; LENGTH: 415
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-905-291A-104
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Query Match 11.3%; Score 79.5; DB 9; Length 415;
Best Local Similarity 24.8%; Pred. No. 0.36;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;
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QY 1 PRTPPC-RACRLRSKLSLSCRSDFALVGRLEVELEPEAAGI-ARVALEDVLKDDKMG 58
DB 292 PTVALCOQCKRRTGLENGVCSDFVLACTVITITRD---GSLHATVSIINIYKEGNLA 348
QY 59 LKFLGRTKYLEVTLSGMDMAC-PCPNMTAGDGLVIMGEV-RDGVAVLDAGSVYRAASEKR 116
DB 349 IQOAG-KNMSARLTV---CKOCPILRRGLN-YIIMGVGEDGRKIMPSFIIMFKTKN 403
QY 117 VKRIELEKQAC 129
DB 404 -QKILDALKNKQC 415
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## RESULT 8

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US-09-902-853-104
;; Sequence 104, Application US/09902853
;; Publication No. US20020192659A1
;; GENERAL INFORMATION:
;; APPLICANT: Genentech, Inc.
;; APPLICANT: Ashkenazi, Avi
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
;; APPLICANT: Goddard, A.
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, Christopher J.
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Hillen, Kenneth J.
;; APPLICANT: Kijavlin, Ivar J.
;; APPLICANT: Mather, Jennie P.
;; APPLICANT: Pan, James
;; APPLICANT: Paoul, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William, I.
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: 10466-14
;; CURRENT APPLICATION NUMBER: US/09/902,853
;; PRIOR APPLICATION NUMBER: 2001-07-10
;; PRIOR APPLICATION NUMBER: US/09/665,350
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;; PRIOR FILING DATE: 2000-09-18
;; PRIOR APPLICATION NUMBER: US 60/143,048
;; PRIOR FILING DATE: 1999-07-07
;; PRIOR APPLICATION NUMBER: US 60/145,698
;; PRIOR FILING DATE: 1999-07-26
;; PRIOR APPLICATION NUMBER: US 60/146,222
;; PRIOR FILING DATE: 1999-07-28
;; PRIOR APPLICATION NUMBER: PCT/US99/20594
;; PRIOR FILING DATE: 1999-09-08
;; PRIOR APPLICATION NUMBER: PCT/US99/20944
;; PRIOR FILING DATE: 1999-09-13
;; PRIOR APPLICATION NUMBER: PCT/US99/21090
;; PRIOR FILING DATE: 1999-09-15
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;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US99/30095
;; PRIOR FILING DATE: 1999-12-16
;; PRIOR APPLICATION NUMBER: PCT/US99/30911
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US99/30999
;; PRIOR FILING DATE: 1999-12-20
;; PRIOR APPLICATION NUMBER: PCT/US00/00219
;; NUMBER OF SEQ ID NOS: 423
;; SEQ ID NO 104
;; LENGTH: 415
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-902-853-104
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Query Match 11.3%; Score 79.5; DB 9; Length 415;
Best Local Similarity 24.8%; Pred. No. 0.36;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;
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QY 1 PRTPPC-RACRLRSKLSLSCRSDFALVGRLEVELEPEAAGI-ARVALEDVLKDDKMG 58
DB 292 PTVALCOQCKRRTGLENGVCSDFVLACTVITITRD---GSLHATVSIINIYKEGNLA 348
QY 59 LKFLGRTKYLEVTLSGMDMAC-PCPNMTAGDGLVIMGEV-RDGVAVLDAGSVYRAASEKR 116
DB 349 IQOAG-KNMSARLTV---CKOCPILRRGLN-YIIMGVGEDGRKIMPSFIIMFKTKN 403
QY 117 VKRIELEKQAC 129
DB 404 -QKILDALKNKQC 415
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## RESULT 9

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US-09-907-824-104
;; Sequence 104, Application US/09907824
;; Publication No. US20020197671A1
;; GENERAL INFORMATION:
;; APPLICANT: Genentech, Inc.
;; APPLICANT: Ashkenazi, Avi
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Filvaroff, Ellen
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Gerber, Hanspeter
;; APPLICANT: Gerritsen, Mary E.
```

```

: APPLICANT: Goddard, A.
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, Christopher J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth, J.
: APPLICANT: Kijavlin, Ivar J.
: APPLICANT: Mather, Jennie P.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: APPLICANT: Roy, Margaret Ann
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Williams, P. Mickey
: APPLICANT: Wood, William, I.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: TITLE OF INVENTION: Acids Encoding the Same
: FILE REFERENCE: 10466-14
: CURRENT APPLICATION NUMBER: US/09/907,824
: CURRENT FILING DATE: 2001-07-17
: PRIOR APPLICATION NUMBER: 09/665,350
: PRIOR FILING DATE: 2000-09-18
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: 2000-02-22
: PRIOR APPLICATION NUMBER: US 60/143,048
: PRIOR FILING DATE: 1999-07-07
: PRIOR APPLICATION NUMBER: US 60/145,698
: PRIOR FILING DATE: 1999-07-26
: PRIOR APPLICATION NUMBER: US 60/146,222
: PRIOR FILING DATE: 1999-07-28
: PRIOR APPLICATION NUMBER: PCT/US99/20594
: PRIOR FILING DATE: 1999-09-08
: PRIOR APPLICATION NUMBER: PCT/US99/20944
: PRIOR FILING DATE: 1999-09-13
: PRIOR APPLICATION NUMBER: PCT/US99/21090
: PRIOR FILING DATE: 1999-09-15
: PRIOR APPLICATION NUMBER: PCT/US99/21547
: PRIOR FILING DATE: 1999-09-15
: PRIOR APPLICATION NUMBER: PCT/US99/23089
: PRIOR FILING DATE: 1999-10-05
: PRIOR APPLICATION NUMBER: PCT/US99/28214
: PRIOR FILING DATE: 1999-11-29
: PRIOR APPLICATION NUMBER: PCT/US99/28313
: PRIOR FILING DATE: 1999-11-30
: PRIOR APPLICATION NUMBER: PCT/US99/28564
: PRIOR FILING DATE: 1999-12-02
: PRIOR APPLICATION NUMBER: PCT/US99/28565
: PRIOR FILING DATE: 1999-12-02
: PRIOR APPLICATION NUMBER: PCT/US99/30095
: PRIOR FILING DATE: 1999-12-16
: PRIOR APPLICATION NUMBER: PCT/US99/30911
: PRIOR FILING DATE: 1999-12-20
: PRIOR APPLICATION NUMBER: PCT/US99/30999
: PRIOR FILING DATE: 1999-12-20
: PRIOR APPLICATION NUMBER: PCT/US00/00219
: PRIOR FILING DATE: 2000-01-05
: NUMBER OF SEQ ID NOS: 423
: SEQ ID NO 104
: LENGTH: 415
: TYPE: PRT
: ORGANISM: Homo Sapiens
: US-09-907-824-104

Query Match          11.3%: Score 79.5; DB 9; Length 415;
Best Local Similarity 24.8%: Pred. No. 0.36;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

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OY      117 VKRIELEKQAC 129
DB      404 -QKLDLAKNKQC 415

RESULT 10
US-09-907-841-104
: Sequence 104, Application US/09907841
: Publication No. US20020198366A1
: GENERAL INFORMATION:
: APPLICANT: Genentech, Inc.
: APPLICANT: Ashkenazi, Avi
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Eaton, Dan L.
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Flavaraoff, Ellen
: APPLICANT: Fong, Sherman
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Gerber, Hanspeter
: APPLICANT: Gertlisen, Mary E.
: APPLICANT: Goddard, A.
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, Christopher J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth, J.
: APPLICANT: Kijavlin, Ivar J.
: APPLICANT: Mather, Jennie P.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: APPLICANT: Stewart, Timothy A.
: APPLICANT: Tumas, Daniel
: APPLICANT: Williams, P. Mickey
: APPLICANT: Wood, William, I.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: TITLE OF INVENTION: Acids Encoding the Same
: FILE REFERENCE: 10466-14
: CURRENT APPLICATION NUMBER: US/09/907,841
: CURRENT FILING DATE: 2001-11-20
: PRIOR APPLICATION NUMBER: PCT/US00/04414
: PRIOR FILING DATE: 2000-02-22
: PRIOR APPLICATION NUMBER: US 60/143,048
: PRIOR FILING DATE: 1999-07-07
: PRIOR APPLICATION NUMBER: US 60/145,698
: PRIOR FILING DATE: 1999-07-26
: PRIOR APPLICATION NUMBER: US 60/146,222
: PRIOR FILING DATE: 1999-07-28
: PRIOR APPLICATION NUMBER: PCT/US99/20594
: PRIOR FILING DATE: 1999-09-08
: PRIOR APPLICATION NUMBER: PCT/US99/20944
: PRIOR FILING DATE: 1999-09-13
: PRIOR APPLICATION NUMBER: PCT/US99/21090
: PRIOR FILING DATE: 1999-09-15
: PRIOR APPLICATION NUMBER: PCT/US99/21547
: PRIOR FILING DATE: 1999-09-15
: PRIOR APPLICATION NUMBER: PCT/US99/23089
: PRIOR FILING DATE: 1999-09-15
: PRIOR APPLICATION NUMBER: PCT/US99/23089
: PRIOR FILING DATE: 1999-10-05
: PRIOR APPLICATION NUMBER: PCT/US99/28214
: PRIOR FILING DATE: 1999-11-29
: Remaining Prior Application data removed - See file Wrapper or PALM.
: NUMBER OF SEQ ID NOS: 423
: SEQ ID NO 104
: LENGTH: 415
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-09-907-841-104

Query Match          11.3%: Score 79.5; DB 9; Length 415;
Best Local Similarity 24.8%: Pred. No. 0.36;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

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[illegible]

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; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 104
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-906-742-104

Query Match      11.3%; Score 79.5; DB 9; Length 415;
Best Local Similarity 24.8%; Pred. No. 0.36;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

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DB 292 PTVALCQOKCRRTGLENYCSDFLVAGTIVTTTRD--GSLHATVSIINIYKEGNLA 348
QY 59 LKFLGTYLEVTLSCGDMAC-PCPNMTAGDGPLVINGEV-RDGVAVLDAGSYVRASEKR 116
DB 349 IQAG-KNMSARLTV---CKQCPLLRRLN-YIIMGVGEGRCKIMNSFIMPKTKN 403

QY 117 VKIILELEKQAC 129
DB 404 -OKLLDLAKNKQC 415

RESULT 13
US-09-906-838-104
; Sequence 104, Application US/09906838
; Publication No. US20030027143A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerltsen, Mary E.
```

```

; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT FILING DATE: US/09/906,838
; PRIOR FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 104
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-906-838-104

Query Match      11.3%; Score 79.5; DB 9; Length 415;
Best Local Similarity 24.8%; Pred. No. 0.36;
Matches 33; Conservative 28; Mismatches 59; Indels 13; Gaps 9;

QY 1 PRTPEC-RACRLRSKLSLSCRSDFIVGRLEVELEPEAAGI-ARVALDEVTKDDKG 58
DB 292 PTVALCQOKCRRTGLENYCSDFLVAGTIVTTTRD--GSLHATVSIINIYKEGNLA 348
QY 59 LKFLGTYLEVTLSCGDMAC-PCPNMTAGDGPLVINGEV-RDGVAVLDAGSYVRASEKR 116
DB 349 IQAG-KNMSARLTV---CKQCPLLRRLN-YIIMGVGEGRCKIMNSFIMPKTKN 403
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GenCore version 5.1.3  
Copyright (c) 1993 - 2003 Compugen Ltd.

## OM protein - protein search, using sw model

Run on: February 20, 2003, 08:09:37 ; Search time 3.99527 seconds

(without alignments)  
478.688 Million cell updates/sec

Title: US-09-819-136-2\_COPY\_93\_157

Perfect score: 390

Sequence: 1 CEGFVCPQGSQSDCDIMDGP.....RCYMDAEXCLRLHLHIVPC 65

## Scoring table:

BIOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued\_Patents\_AA:\*  
1: /cgn2\_6/ptodata/1/1aa/5A.COMB.pep:\*  
2: /cgn2\_6/ptodata/1/1aa/5B.COMB.pep:\*  
3: /cgn2\_6/ptodata/1/1aa/6A.COMB.pep:\*  
4: /cgn2\_6/ptodata/1/1aa/6B.COMB.pep:\*  
5: /cgn2\_6/ptodata/1/1aa/PCYUS.COMB.pep:\*  
6: /cgn2\_6/ptodata/1/1aa/Backfilest.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	101	25.9	1940	2	US-08-644-271-30
2	101	25.9	1940	4	US-09-077-955-34
3	95	24.4	71	2	US-08-972-008-4
4	95	24.4	71	4	US-09-267-409-4
5	95	24.4	263	2	US-08-972-008-2
6	95	24.4	263	4	US-09-141-027-2
7	95	24.4	263	4	US-09-267-409-2
8	91	23.3	983	4	US-09-412-554A-2
9	87	22.3	317	4	US-09-141-027-3
10	84	21.5	380	3	US-08-468-846-2
11	84	21.5	380	4	US-08-915-096A-2
12	80.5	20.6	347	4	US-09-605-785-590
13	80.5	20.6	374	2	US-08-820-170A-25
14	80.5	20.6	374	3	US-09-055-699-25
15	80.5	20.6	374	4	US-09-273-565-25
16	80.5	20.6	374	4	US-09-565-538-25
17	80.5	20.6	374	4	US-09-661-468-25
18	80.5	20.6	374	5	PCT-US95-06385-2
19	71.5	18.3	303	6	US-09-513-442-2
20	71.5	18.3	467	4	US-08-421-661-6
21	71.5	18.2	664	1	US-09-383-586-20
22	70.5	18.1	317	4	US-09-188-930-183
23	68	17.4	771	4	US-07-728-215-37
24	67.5	17.3	94	2	US-08-938-085A-37
25	67.5	17.3	1964	4	US-09-467-997-1
26	67.5	17.3	184	1	US-08-211-942-7
27	67	17.2	184	1	US-08-211-942-7

28	67	17.2	186	1	US-08-211-942-9	Sequence 9, Appl1
29	67	17.2	1525	3	US-09-191-647-2	Sequence 2, Appl1
30	67	17.2	1525	4	US-09-540-245A-2	Sequence 2, Appl1
31	67	17.2	1525	4	US-09-540-153-2	Sequence 2, Appl1
32	66.5	17.1	160	3	US-09-191-647-5	Sequence 5, Appl1
33	66.5	17.1	160	4	US-09-540-245A-5	Sequence 5, Appl1
34	66.5	17.1	160	4	US-09-540-153-5	Sequence 5, Appl1
35	66	16.9	578	4	US-08-981-392-13	Sequence 35, Appl1
36	65.5	16.8	94	2	US-07-728-215-35	Sequence 35, Appl1
37	65.5	16.8	94	4	US-08-938-085A-35	Sequence 30, Appl1
38	65.5	16.8	798	2	US-07-728-215-30	Sequence 30, Appl1
39	65.5	16.8	798	4	US-08-938-085A-30	Sequence 13, Appl1
40	65	16.7	104	3	US-09-191-647-13	Sequence 13, Appl1
41	65	16.7	104	4	US-09-540-245A-13	Sequence 13, Appl1
42	65	16.7	104	4	US-09-540-153-13	Sequence 13, Appl1
43	65	16.7	480	3	US-08-923-454A-18	Sequence 18, Appl1
44	65	16.7	1523	4	US-09-182-024A-2	Sequence 2, Appl1
45	64.5	16.5	1139	1	US-08-537-210A-4	Sequence 4, Appl1

## ALIGNMENTS

RESULT 1  
US-08-644-271-30  
Sequence 30, Application US/08644271  
Patent No. 5814478  
GENERAL INFORMATION:  
APPLICANT: Valenzuela, et al.  
TITLE OF INVENTION: NOVEL TYROSINE KINASE RECEPTORS  
TITLE OF INVENTION: AND LIGANDS  
NUMBER OF SEQUENCES: 32  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Regeneron Pharmaceuticals, Inc.  
STREET: 777 Old Saw Mill Road  
CITY: Tarrytown  
STATE: NY  
COUNTRY: USA  
ZIP: 10591  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 2.0  
CURRENT APPLICATION DATA: 2.0  
APPLICATION NUMBER: US/08/644,271  
FILING DATE: 10-MAY-1996  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: USSN 60/008,657  
FILING DATE: 15-DEC-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Cobert, Robert J  
REGISTRATION NUMBER: 36,108  
REFERENCE/DOCKET NUMBER: REG 195A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 914-345-7400  
TELEFAX: 914-345-7721  
TELEX:  
INFORMATION FOR SEQ ID NO: 30:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1940 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: Rat Agt1n  
LOCATION: 1...1940  
OTHER INFORMATION:  
US-08-644-271-30  
Query Match 25.9%, Score 101, DB 2, Length 1940;



Db 3 CDGVEC-GPGKACRMIGRPRCECAPDCSGLPARLQVCGSDGATYRDECELRAARC-RG 59

## RESULT 5

US-08-972-008-2  
; Sequence 2, Application US/08972008  
; Patent No. 5942420  
; GENERAL INFORMATION:  
; APPLICANT: Holtzman, Douglas A.  
; TITLE OF INVENTION: No. 5942420e1 Molecules of the Follistatin-Related  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD, LLP  
; STREET: 28 State Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/972.008  
; FILING DATE:  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Amy E. Mandragouras  
; REGISTRATION/DOCKET NUMBER: 36.207  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617)227-7400  
; TELEFAX: (617)742-4214  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 263 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-972-008-2

## Query Match

Best Local Similarity 37.3%; Score 95; DB 2; Length 263;  
Matches 22; Conservative 6; Mismatches 27; Indels 4; Gaps 3;

QY 1 CEGFYCPQOGSDCDIMDGPVRCRCDRCCKEPS--FTCASDGLTYNRCYMDAECALRG 57  
Db 99 CDGVEC-GPGKACRMIGRPRCECAPDCSGLPARLQVCGSDGATYRDECELRAARC-RG 155

## RESULT 6

US-09-141-027-2  
; Sequence 2, Application US/09141027A  
; Patent No. 6372454  
; GENERAL INFORMATION:  
; APPLICANT: Duan, et al.  
; TITLE OF INVENTION: Follistatin-3  
; FILE REFERENCE: PF388  
; CURRENT APPLICATION NUMBER: US/09/141.027A  
; EARLIER FILING DATE: 1998-08-27  
; EARLIER APPLICATION NUMBER: 60/656,248  
; NUMBER OF SEQ ID NOS: 19  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 2  
; LENGTH: 263  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-141-027-2

## Query Match

24.4%; Score 95; DB 4; Length 263;

Best Local Similarity 37.3%; Pred. No. 0.0023;  
Matches 22; Conservative 6; Mismatches 27; Indels 4; Gaps 3;

QY 1 CEGFYCPQOGSDCDIMDGPVRCRCDRCCKEPS--FTCASDGLTYNRCYMDAECALRG 57  
Db 99 CDGVEC-GPGKACRMIGRPRCECAPDCSGLPARLQVCGSDGATYRDECELRAARC-RG 155

## RESULT 7

US-09-267-409-2  
; Sequence 2, Application US/09267409  
; Patent No. 6410232  
; GENERAL INFORMATION:  
; APPLICANT: Holtzman, Douglas A.  
; TITLE OF INVENTION: No. 6410232e1 Molecules of the Follistatin-Related  
; NUMBER OF SEQUENCES: 5  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: LAHIVE & COCKFIELD, LLP  
; STREET: 28 State Street  
; CITY: Boston  
; STATE: Massachusetts  
; COUNTRY: USA  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/267.409  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/972.008  
; FILING DATE: 1997-NOV-17  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Amy E. Mandragouras  
; REGISTRATION/DOCKET NUMBER: 36.207  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (617)227-7400  
; TELEFAX: (617)742-4214  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 263 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-09-267-409-2

## Query Match

Best Local Similarity 37.3%; Score 95; DB 4; Length 263;  
Matches 22; Conservative 6; Mismatches 27; Indels 4; Gaps 3;

QY 1 CEGFYCPQOGSDCDIMDGPVRCRCDRCCKEPS--FTCASDGLTYNRCYMDAECALRG 57  
Db 99 CDGVEC-GPGKACRMIGRPRCECAPDCSGLPARLQVCGSDGATYRDECELRAARC-RG 155

## RESULT 8

US-09-412-554A-2  
; Sequence 2, Application US/09412554A  
; Patent No. 635778  
; GENERAL INFORMATION:  
; APPLICANT: Conklin, Darrell  
; TITLE OF INVENTION: FOLLISTATIN RELATED PROTEIN ZFSTRA2  
; FILE REFERENCE: 98-50  
; CURRENT APPLICATION NUMBER: US/09/412.554A  
; EARLIER FILING DATE: 1999-10-05  
; NUMBER OF SEQ ID NOS: 15  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 2

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; LENGTH: 983
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-412-554A-2

Query Match
Best Local Similarity 39.1%; Score 91; DB 4; Length 983;
Matches 18; Conservative 5; Mismatches 23; Indels 0; Gaps 0;

QY 18 GQVPCRCRDCRCEPSTGASDGLTYNNRCYMDACLRGLHLTIY 63
DB 83 GQAECAACMDLCKRHYKPVGSGDEYENNCVHRAACLKQKXITIV 128

RESULT 9
US-09-141-027-3
; Sequence 3, Application US/09141027A
; Patent No. 6372454
; GENERAL INFORMATION:
; APPLICANT: Duann, et al.
; TITLE OF INVENTION: Follistatin-3
; FILE REFERENCE: PF388
; CURRENT APPLICATION NUMBER: US/09/141,027A
; CURRENT FILING DATE: 1998-08-27
; EARLIER APPLICATION NUMBER: 60/656,248
; EARLIER FILING DATE: 1997-08-29
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 317
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-141-027-3

Query Match
Best Local Similarity 35.7%; Score 87; DB 4; Length 317;
Matches 25; Conservative 5; Mismatches 28; Indels 12; Gaps 5;

QY 1 CEGFVCGQSGSDCDIWD--GQVPCR-----CRDRCRCEPSTGASDGLTYNNRCYMDAE 52
DB 245 CEDIQC-TGGRKC-LMDKVGGRGSLCDELCPDSKSDP--VCASDNATYASCAKMEA 300
QY 53 ACLRGLHLHI 62
DB 301 ACSSGVILLEV 310

RESULT 10
US-08-468-846-2
; Sequence 2, Application US/08468846
; Patent No. 6074839
; GENERAL INFORMATION:
; APPLICANT: Meissner, Paul
; APPLICANT: Fuldner, Rebecca
; APPLICANT: Fei-Wei, Ying
; APPLICANT: Adams, Mark
; TITLE OF INVENTION: TRANSFORMING GROWTH FACTOR ALPHA HI
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI,
; STREET: 6 Becker Farm Road
; CITY: Roseland
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07068
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/468,846
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; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/208,008
; FILING DATE: 08-MAR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferraro, Gregory D.
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-465
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-994-1700
; TELEFAX: 201-994-1744
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 380 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-468-846-2

Query Match
Best Local Similarity 21.5%; Score 84; DB 3; Length 380;
Matches 20; Conservative 9; Mismatches 27; Indels 10; Gaps 3;

QY 3 GFVCPQSGSDCDIWDGQVPCRDCRDCRCEPSTGASDGLTYNNRCYMDACLRGLHLTI 62
DB 85 GGVCKEKG-----DGLK-CACQFQCHTNYIPVCGSGNDIYQNECFILRAACKHQEITV 137
QY 63 V---PC 65
DB 138 IARGPC 143

RESULT 11
US-08-915-096A-2
; Sequence 2, Application US/08915096A
; Patent No. 6265543
; GENERAL INFORMATION:
; APPLICANT: Meissner, Paul S.
; APPLICANT: Fuldner, Rebecca A.
; APPLICANT: Adams, Mark D.
; TITLE OF INVENTION: Transforming Growth Factor Alpha HI
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: MD
; COUNTRY: USA
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/915,096A
; FILING DATE: 20-AUG-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/468,846
; FILING DATE: 06-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/208,008
; FILING DATE: 08-MAR-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Brookes, A. Anders
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PF110D1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 301-309-8504
; TELEFAX: 301-309-8439
; INFORMATION FOR SEQ ID NO: 2:
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SEQUENCE CHARACTERISTICS:  
LENGTH: 380 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-915-096A-2

Query Match 21.5%; Score 84; DB 4; Length 380;  
Best Local Similarity 30.3%; Pred. No. 0.058;  
Matches 20; Conservative 9; Mismatches 27; Indels 10; Gaps 3;

QY 3 GFVCPQOGSDCDIMDGPVCRDRCKEPEFTCASDGLTYNRCYMDAEACLRGLHL 62  
DB 85 GGVCEHDEG-----DGLK-CACQFOCHRYIVYCGSNGDTYQNECFLRNAACKHOKETIV 137

QY 63 V---PC 65  
DB 138 IARGPC 143

RESULT 12  
US-09-605-785-590  
Sequence 590, Application US/09605785  
Patent No. 6321716  
GENERAL INFORMATION:

APPLICANT: Xu, Jiangchun  
APPLICANT: Dillon, David C.  
APPLICANT: Mitcham, Jennifer L.  
APPLICANT: Harlocker, Susan L.  
APPLICANT: Jiang, Yuqi  
APPLICANT: Henderson, Robert A.  
APPLICANT: Kalos, Michael D.  
APPLICANT: Fanger, Gary R.  
APPLICANT: Retter, Marc W.  
APPLICANT: Stolk, John A.  
APPLICANT: Day, Craig H.  
APPLICANT: Vedvick, Thomas S.  
APPLICANT: Carter, Darick  
APPLICANT: Li, Samuel  
APPLICANT: Wang, Aljun  
APPLICANT: Skelky, Yasir A.W.  
APPLICANT: Hepler, William  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND  
FILE REFERENCE: 210121.427C16  
CURRENT APPLICATION NUMBER: US/09/605,785  
NUMBER OF SEQ ID NOS: 835  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 590  
LENGTH: 347  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-605-785-590

Query Match 20.6%; Score 80.5; DB 4; Length 347;  
Best Local Similarity 28.6%; Pred. No. 0.13;  
Matches 18; Conservative 10; Mismatches 34; Indels 1; Gaps 1;

QY 1 CEGFVCPQOGSDCDIMDGPVCRDRCKEPEFTCASDGLTYNRCYMDAEACLRGLHL 60  
DB 42 CDTNCKEFGDECLRTIGD-TVTCVCOFKCNDYVPVCGSNGESYQNECYLRQAACKQOSEI 100

QY 61 HIV 63  
DB 101 LVV 103

RESULT 13  
US-08-820-170A-25  
Sequence 25, Application US/08820170A  
Patent No. 5831058  
GENERAL INFORMATION:

APPLICANT: Tsutomu, FUJIWARA  
APPLICANT: Takeshi, WATANABE  
APPLICANT: Masato, HORIE  
APPLICANT: Toyomasa, KATAGIRI  
TITLE OF INVENTION: HUMAN GENE  
NUMBER OF SEQUENCES: 42  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sughrue, Mion, Zimm, Macpeak & Seas  
STREET: 2100 Pennsylvania Avenue, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: United States  
ZIP: 20037-3202

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/820,170A  
FILING DATE:

CLASSIFICATION: 536  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 293-7060  
TELEFAX: (202) 293-7860  
TELEX: 6491103  
INFORMATION FOR SEQ ID NO: 25:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 374 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-820-170A-25

Query Match 20.6%; Score 80.5; DB 2; Length 374;  
Best Local Similarity 28.6%; Pred. No. 0.14;  
Matches 18; Conservative 10; Mismatches 34; Indels 1; Gaps 1;

QY 1 CEGFVCPQOGSDCDIMDGPVCRDRCKEPEFTCASDGLTYNRCYMDAEACLRGLHL 60  
DB 69 CDTNCKEFGDECLRTIGD-TVTCVCOFKCNDYVPVCGSNGESYQNECYLRQAACKQOSEI 127

QY 61 HIV 63  
DB 128 LVV 130

RESULT 14  
US-09-055-699-25  
Sequence 25, Application US/09055699  
Patent No. 6003088  
GENERAL INFORMATION:

APPLICANT: Tsutomu, FUJIWARA  
APPLICANT: Takeshi, WATANABE  
APPLICANT: Masato, HORIE  
APPLICANT: Toyomasa, KATAGIRI  
TITLE OF INVENTION: HUMAN GENE  
NUMBER OF SEQUENCES: 42  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sughrue, Mion, Zimm, Macpeak & Seas  
STREET: 2100 Pennsylvania Avenue, N.W.  
CITY: Washington  
STATE: D.C.  
COUNTRY: United States  
ZIP: 20037-3202

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/055,699  
FILING DATE:

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; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/820,170
; FILING DATE:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 293-7060
; TELEFAX: (202) 293-7860
; TELEX: 6491103
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 374 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-055-699-25
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Query Match          20.6%; Score 80.5; DB 3; Length 374;
Best Local Similarity 28.6%; Pred. No. 0.14;
Matches 18; Conservative 10; Mismatches 34; Indels 1; Gaps 1;
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QY      1  CEGFYCPQGGSDCDIMGQPCRCRCEKEPSTFCASDGLTYNRCYMDAEACLRGLHL 60
Db      69  CDTNCKFDEGLRIGD-TYTCVCGFKCNDYVPVCGSNGESYQNECTILROAACKQOSEI 127
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QY      61  HIV 63
Db      128  LVV 130
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RESULT 15
US-09-273-565-25
; Sequence 25, Application US/09273565A
; Patent No. 6166190
; GENERAL INFORMATION:
; APPLICANT: FUJIMURA, TSUTOMU
; APPLICANT: WATANABE, TAKESHI
; TITLE OF INVENTION: AN ISOLATED NUCLEIC ACID MOLECULE ENCODING HUMAN
; FILE REFERENCE: Q-53599
; CURRENT APPLICATION NUMBER: US/09/273,565A
; CURRENT FILING DATE: 1999-03-22
; EARLIER APPLICATION NUMBER: 09/055,699
; EARLIER FILING DATE: 1998-04-07
; EARLIER APPLICATION NUMBER: 08/820,170
; EARLIER FILING DATE: 1997-03-19
; EARLIER APPLICATION NUMBER: JP 63410/1996
; EARLIER FILING DATE: 1996-03-19
; EARLIER APPLICATION NUMBER: JP 69163/1997
; EARLIER FILING DATE: 1997-03-05
; NUMBER OF SEQ ID NOS: 95
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-273-565-25
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Query Match          20.6%; Score 80.5; DB 4; Length 374;
Best Local Similarity 28.6%; Pred. No. 0.14;
Matches 18; Conservative 10; Mismatches 34; Indels 1; Gaps 1;
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QY      1  CEGFYCPQGGSDCDIMGQPCRCRCEKEPSTFCASDGLTYNRCYMDAEACLRGLHL 60
Db      69  CDTNCKFDEGLRIGD-TYTCVCGFKCNDYVPVCGSNGESYQNECTILROAACKQOSEI 127
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QY      61  HIV 63
Db      128  LVV 130
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Job time 5.99527 secs



GenCore version 5.1.3  
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OM protein - protein search, using sw model

Run on: February 20, 2003, 08:21:07 ; Search time 2.68913 Seconds

(Without alignments)  
617.553 Million cell updates/sec

Title: US-09-819-136-2\_COPY\_93\_157

Perfect score: 390  
Sequence: 1 CEGFVCPQGGSDCIDWDGPPVCRRCRDRCKEFTCASDGLTYNRCYMDAENCLGHLH 65

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Gapop 10.0 , Gapext 0.5

Searched: 140259 seqs, 25548876 residues

Total number of hits satisfying chosen parameters: 140259

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_Applications\_AA:\*

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- 2: /cgn2\_6/ptodata/1/pubpaa/PCr\_NEM\_PUB.pep:\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEM\_PUB.pep:\*
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- 8: /cgn2\_6/ptodata/1/pubpaa/US09\_NEM\_PUB.pep:\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep:\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US10\_NEM\_PUB.pep:\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US10\_PUBCOMB.pep:\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US60\_NEM\_PUB.pep:\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep:\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	390	100.0	548	10 US-09-819-136-2	Sequence 2, Appl1
2	316	81.0	576	10 US-09-794-589-2	Sequence 2, Appl1
3	113	28.0	315	9 US-09-808-602-65	Sequence 63, Appl1
4	110	28.2	299	9 US-09-808-602-63	Sequence 61, Appl1
5	110	28.2	306	9 US-09-808-602-61	Sequence 64, Appl1
6	110	28.2	308	9 US-09-808-602-64	Sequence 34, Appl1
7	101	25.9	1940	9 US-10-016-283-34	Sequence 4, Appl1
8	97	24.9	815	9 US-09-808-602-4	Sequence 18, Appl1
9	97	24.9	815	9 US-09-966-546-18	Sequence 18, Appl1
10	97	24.9	815	9 US-09-966-546-18	Sequence 18, Appl1
11	97	24.9	815	9 US-09-965-212-18	Sequence 16, Appl1
12	97	24.9	842	9 US-09-966-546-16	Sequence 16, Appl1
13	97	24.9	842	9 US-09-966-545-16	Sequence 16, Appl1
14	97	24.9	842	9 US-09-965-212-16	Sequence 16, Appl1
15	95	24.4	263	9 US-10-101-392-2	Sequence 2, Appl1
16	95	24.4	263	9 US-10-066-500-41	Sequence 41, Appl1
17	95	24.4	263	9 US-10-053-107-4	Sequence 484, App
18	95	24.4	263	9 US-10-028-072-484	Sequence 484, App
19	95	24.4	263	9 US-10-121-049-484	Sequence 484, App

20	95	24.4	263	9	US-10-123-904-484	Sequence 484, App
21	95	24.4	263	9	US-10-140-470-484	Sequence 484, App
22	95	24.4	263	9	US-10-175-746-484	Sequence 484, App
23	95	24.4	263	9	US-10-176-918-484	Sequence 484, App
24	95	24.4	263	9	US-10-176-921-484	Sequence 60, Appl1
25	91	23.3	773	9	US-09-808-602-60	Sequence 58, Appl1
26	91	23.3	850	9	US-09-808-602-58	Sequence 73, Appl1
27	91	23.3	983	9	US-09-808-602-73	Sequence 2, Appl1
28	91	23.3	983	9	US-10-013-136-2	Sequence 3, Appl1
29	87	22.3	317	9	US-10-101-945-2	Sequence 2, Appl1
30	84	21.5	380	9	US-10-201-945-2	Sequence 442, App
31	82.5	21.2	436	9	US-09-978-295A-442	Sequence 442, App
32	82.5	21.2	436	9	US-09-978-132A-442	Sequence 442, App
33	82.5	21.2	436	9	US-09-978-832A-442	Sequence 442, App
34	82.5	21.2	436	9	US-09-978-189-442	Sequence 404, App
35	82.5	21.2	436	9	US-09-978-189-442	Sequence 404, App
36	82.5	21.2	436	9	US-10-028-072-404	Sequence 404, App
37	82.5	21.2	436	9	US-10-121-049-404	Sequence 404, App
38	82.5	21.2	436	9	US-10-123-904-404	Sequence 404, App
39	82.5	21.2	436	9	US-10-140-470-404	Sequence 404, App
40	82.5	21.2	436	9	US-10-175-746-404	Sequence 404, App
41	82.5	21.2	436	9	US-10-176-918-404	Sequence 404, App
42	82.5	21.2	436	9	US-10-176-921-404	Sequence 138, App
43	82.5	21.2	436	10	US-09-745-763-138	Sequence 940, App
44	80.5	20.6	336	9	US-10-012-896-940	Sequence 940, App
45	80.5	20.6	336	9	US-09-895-793-940	Sequence 940, App

#### ALIGNMENTS

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RESULT 1
US-09-819-136-2
; Sequence 2, Application US/09819136
; Patent No. US20020146789A1
; GENERAL INFORMATION:
; APPLICANT: Conklin, Darrell C.
; APPLICANT: Geo. Zeren
; TITLE OF INVENTION: MULTI-DOMAIN PROTEINASE INHIBITOR
; FILE REFERENCE: 00-25
; CURRENT APPLICATION NUMBER: US/09/819,136
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 60/193,642
; PRIOR FILING DATE: 2000-03-31
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; TYPE: PRT
; LENGTH: 548
; ORGANISM: Homo sapiens
US-09-819-136-2

Query Match          100.0%; Score 390; DB 10; Length 548;
Best Local Similarity 100.0%; Pred. No. 1.9e-32;
Matches 65; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CEGFVCPQGGSDCIDWDGPPVCRRCRDRCKEFTCASDGLTYNRCYMDAENCLGHLH 60
      |||||||
Db      93 CEGFVCPQGGSDCIDWDGPPVCRRCRDRCKEFTCASDGLTYNRCYMDAENCLGHLH 152
QY      61 HTVPC 65
      |||||
Db      153 HTVPC 157

RESULT 2
US-09-794-589-2
; Sequence 2, Application US/09794589
; Patent No. US20020004224A1
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; TITLE OF INVENTION: KUNITZ DOMAIN POLYPEPTIDE ZKUN8
; FILE REFERENCE: 00-01
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; CURRENT APPLICATION NUMBER: US/09/794,589
; CURRENT FILING DATE: 2001-02-27
; PRIOR APPLICATION NUMBER: US 60/186,069
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 2
; LENGTH: 576
; TYPE: PRF
; ORGANISM: Homo sapiens
US-09-794-589-2
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Query Match      81.0%; Score 316; DB 10; Length 576;
Best Local Similarity 78.5%; Pred. No. 6.2e-25;
Matches 51; Conservative 8; Mismatches 6; Indels 0; Gaps 0;
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OY      1 CEGFVCPQGGSDCDIWD-GQPVCRRCRCEKPSFTCASDGLTYNRCYMDAECIRGLH 60
Db      111 CEFMCLQGGSDCDIWDGQPVCKCKDCRCEKPSFTCASDGLTYNRCYMDAECIRGLH 170
OY      61 HIVPC 65
Db      171 AVVTC 175
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RESULT 3
US-09-808-602-65
; Sequence 65, Application US/09808602
; Patent No. US20020155115A1
; GENERAL INFORMATION:
; APPLICANT: Vernet, Corline A
; APPLICANT: Fernandes, Elma
; APPLICANT: Shinkets, Richard A
; APPLICANT: Heriman, John L
; APPLICANT: Majumder, Kumud
; APPLICANT: Mishra, Vishnu
; APPLICANT: Mezes, Peter S
; APPLICANT: MacDougall, John
; TITLE OF INVENTION: No. US20020155115A1e1 Proteins and Nuclec Acids Encoding Same
; FILE REFERENCE: 15966-697 CIP
; CURRENT APPLICATION NUMBER: US/09/808,602
; CURRENT FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 09/800,198
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/186,596
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 65
; LENGTH: 315
; TYPE: PRF
; ORGANISM: Gallus gallus
US-09-808-602-65
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Query Match      29.0%; Score 113; DB 9; Length 315;
Best Local Similarity 31.7%; Pred. No. 0.00013;
Matches 20; Conservative 14; Mismatches 27; Indels 2; Gaps 2;
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OY      1 CEGFVCPQGGSDCDIWD-GQPVCRRCRCEKPSFTCASDGLTYNRCYMDAECIRGLH 59
Db      31 CANVFC-GRGAFCAYTEKEGFTCLCEQCKPHGRPVCGSNGKTYLNCHELHRDACLIGSK 89
OY      60 LHI 62
Db      90 IQV 92
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RESULT 4
US-09-808-602-63
; Sequence 63, Application US/09808602
; Patent No. US20020155115A1
; GENERAL INFORMATION:
; APPLICANT: Vernet, Corline A
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; APPLICANT: Fernandes, Elma
; APPLICANT: Shinkets, Richard A
; APPLICANT: Heriman, John L
; APPLICANT: Majumder, Kumud
; APPLICANT: Mishra, Vishnu
; APPLICANT: Mezes, Peter S
; APPLICANT: MacDougall, John
; TITLE OF INVENTION: No. US20020155115A1e1 Proteins and Nuclec Acids Encoding Same
; FILE REFERENCE: 15966-697 CIP
; CURRENT APPLICATION NUMBER: US/09/808,602
; CURRENT FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 09/800,198
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/186,596
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 114
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; SEQ ID NO: 63
; LENGTH: 299
; TYPE: PRF
; ORGANISM: Xenopus laevis
US-09-808-602-63
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Query Match      28.2%; Score 110; DB 9; Length 299;
Best Local Similarity 31.7%; Pred. No. 0.00025;
Matches 20; Conservative 11; Mismatches 30; Indels 2; Gaps 2;
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OY      1 CEGFVCPQGGSDCDIWD-GQPVCRRCRCEKPSFTCASDGLTYNRCYMDAECIRGLH 59
Db      28 CANVFC-GAGRECAVTEKEGFTCLCEQCKSHKRPVCGSNGKTYLNCHELHRDACLIGSK 86
OY      60 LHI 62
Db      87 IQV 89
```

```
RESULT 5
US-09-808-602-61
; Sequence 61, Application US/09808602
; Patent No. US20020155115A1
; GENERAL INFORMATION:
; APPLICANT: Vernet, Corline A
; APPLICANT: Fernandes, Elma
; APPLICANT: Shinkets, Richard A
; APPLICANT: Heriman, John L
; APPLICANT: Majumder, Kumud
; APPLICANT: Mishra, Vishnu
; APPLICANT: Mezes, Peter S
; APPLICANT: MacDougall, John
; TITLE OF INVENTION: No. US20020155115A1e1 Proteins and Nuclec Acids Encoding Same
; FILE REFERENCE: 15966-697 CIP
; CURRENT APPLICATION NUMBER: US/09/808,602
; CURRENT FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 09/800,198
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: 60/186,596
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 114
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 61
; LENGTH: 306
; TYPE: PRF
; ORGANISM: Rattus norvegicus
US-09-808-602-61
```

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Query Match      28.2%; Score 110; DB 9; Length 306;
Best Local Similarity 31.7%; Pred. No. 0.00025;
Matches 20; Conservative 12; Mismatches 29; Indels 2; Gaps 2;
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```
OY      1 CEGFVCPQGGSDCDIWD-GQPVCRRCRCEKPSFTCASDGLTYNRCYMDAECIRGLH 59
Db      29 CANVFC-GAGRECAVTEKEGFTCLCEQCKPHKRPVCGSNGKTYLNCHELHRDACLIGSK 87
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Query Match	24.98;	Score 97;	DB 9;	Length 815;
Best Local Similarity	35.68;	Pred. No. 0.012;		
Matches 21; Conservative	10;	Mismatches 22;	Indels 6;	Gaps 3;





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# ALIGNMENTS

RESULT 1  
 PCT-US01-09226-47  
 ; Sequence 47, Application PC/TUS0109226  
 ; GENERAL INFORMATION:  
 ; APPLICANT: SMITHKLINE BEECHAM CORPORATION  
 ; APPLICANT: SMITHKLINE BEECHAM P.L.C.  
 ; TITLE OF INVENTION: NOVEL COMPOUNDS  
 ; FILE REFERENCE: GP50018  
 ; CURRENT APPLICATION NUMBER: PCT/US01/09226  
 ; CURRENT FILING DATE: 2001-03-22  
 ; PRIOR APPLICATION NUMBER: 60/192,158  
 ; PRIOR FILING DATE: 2000-03-24  
 ; PRIOR APPLICATION NUMBER: 60/192,668  
 ; PRIOR FILING DATE: 2000-03-27  
 ; PRIOR APPLICATION NUMBER: 60/200,166  
 ; PRIOR FILING DATE: 2000-04-27  
 ; NUMBER OF SEQ ID NOS: 66  
 ; SOFTWARE: FASTSEQ for Windows Version 3.0  
 ; SEQ ID NO 47  
 ; LENGTH: 548  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 PCT-US01-09226-47

Query Match 100.0%; Score 3016; DB 1; Length 548;  
 Best Local Similarity 100.0%; Pctd. No. 1.8e-200; Indels 0; Gaps 0;  
 Matches 548; Conservative 0; Mismatches 0;

QY 1 MPALRPILPLLLLLRLTSGAGLLPGLGSHPGVCPNQLSPNLMVDAQSTCERECSDQDCA 60

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Db 1 MPAALPPLPLLLRLTSGAGLLPGLSHPGVCPNQLSPNLMVDAOSTCERECSDODCA 60  
 QY 61 AAECCTINVCGLHSCVAARFPSPAPPTTAASCEGFVCPQOOSDCCDINDGQVPCRCRDR 120  
 Db 61 AAECCTINVCGLHSCVAARFPSPAPPTTAASCEGFVCPQOOSDCCDINDGQVPCRCRDR 120  
 QY 121 EKEPFTCASDGLTYNNRCYMDAECRLGLHLHIVPCKHVLSWPPSSGPPETTARPTPG 180  
 Db 121 EKEPFTCASDGLTYNNRCYMDAECRLGLHLHIVPCKHVLSWPPSSGPPETTARPTPG 180  
 QY 181 AAPVPALYSSPSPOAVOYGTASTLHCDVSGRPPAVTWKOSHORENLMRPDOMYGNV 240  
 Db 181 AAPVPALYSSPSPOAVOYGTASTLHCDVSGRPPAVTWKOSHORENLMRPDOMYGNV 240  
 QY 241 VVTSIGOLVLYNAREPDAGLYTCTARNNAAGLLRADPFLSVQREPARDAASIPAPAECL 300  
 Db 241 VVTSIGOLVLYNAREPDAGLYTCTARNNAAGLLRADPFLSVQREPARDAASIPAPAECL 300  
 QY 301 PDVQACTGPTSPHLVLMHYDPQRGCMTEPPARGCDGAARGFETYEACQOACARGPDACY 360  
 Db 301 PDVQACTGPTSPHLVLMHYDPQRGCMTEPPARGCDGAARGFETYEACQOACARGPDACY 360  
 QY 361 LPAVQPCRGMEPRRAYSPILQOCHPFTYGGCGNGNHSRESCEDACPVPTPTPCRCAC 420  
 Db 361 LPAVQPCRGMEPRRAYSPILQOCHPFTYGGCGNGNHSRESCEDACPVPTPTPCRCAC 420  
 QY 421 RLRSKIALSLCRSDFAIVGRLEVELEPEPAAGIARVALEDVLRKDKMGLKFTGYLEY 480  
 Db 421 RLRSKIALSLCRSDFAIVGRLEVELEPEPAAGIARVALEDVLRKDKMGLKFTGYLEY 480  
 QY 481 TISGMDMACPCPNMTAGDGLVIMGEVRDGVAVLDAGSYVRAASEKRYKKILELEKQAC 540  
 Db 481 TISGMDMACPCPNMTAGDGLVIMGEVRDGVAVLDAGSYVRAASEKRYKKILELEKQAC 540  
 QY 541 ELLNRFD 548  
 Db 541 ELLNRFD 548

RESULT 2  
 US-09-540-910-2  
 ; Sequence 2, Application US/09540910  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Conklin, Darrell C.  
 ; APPLICANT: Gao, Zeren  
 ; TITLE OF INVENTION: MULTI-DOMAIN PROTEINASE INHIBITOR  
 ; FILE REFERENCE: 00-25X  
 ; CURRENT APPLICATION NUMBER: US/09/540, 910  
 ; CURRENT FILING DATE: 2000-03-31  
 ; NUMBER OF SEQ ID NOS: 7  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 2  
 ; LENGTH: 548  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-540-910-2

Query Match 100.0%; Score 3016; DB 19; Length 548;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-200;  
 Matches 548; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MPAALPPLPLLLRLTSGAGLLPGLSHPGVCPNQLSPNLMVDAOSTCERECSDODCA 60  
 Db 1 MPAALPPLPLLLRLTSGAGLLPGLSHPGVCPNQLSPNLMVDAOSTCERECSDODCA 60  
 QY 61 AAECCTINVCGLHSCVAARFPSPAPPTTAASCEGFVCPQOOSDCCDINDGQVPCRCRDR 120  
 Db 61 AAECCTINVCGLHSCVAARFPSPAPPTTAASCEGFVCPQOOSDCCDINDGQVPCRCRDR 120  
 QY 121 EKEPFTCASDGLTYNNRCYMDAECRLGLHLHIVPCKHVLSWPPSSGPPETTARPTPG 180  
 Db 121 EKEPFTCASDGLTYNNRCYMDAECRLGLHLHIVPCKHVLSWPPSSGPPETTARPTPG 180  
 QY 181 AAPVPALYSSPSPOAVOYGTASTLHCDVSGRPPAVTWKOSHORENLMRPDOMYGNV 240  
 Db 181 AAPVPALYSSPSPOAVOYGTASTLHCDVSGRPPAVTWKOSHORENLMRPDOMYGNV 240  
 QY 241 VVTSIGOLVLYNAREPDAGLYTCTARNNAAGLLRADPFLSVQREPARDAASIPAPAECL 300  
 Db 241 VVTSIGOLVLYNAREPDAGLYTCTARNNAAGLLRADPFLSVQREPARDAASIPAPAECL 300

QY 181 AAPVPALYSSPSPOAVOYGTASTLHCDVSGRPPAVTWKOSHORENLMRPDOMYGNV 240  
 Db 181 AAPVPALYSSPSPOAVOYGTASTLHCDVSGRPPAVTWKOSHORENLMRPDOMYGNV 240  
 QY 241 VVTSIGOLVLYNAREPDAGLYTCTARNNAAGLLRADPFLSVQREPARDAASIPAPAECL 300  
 Db 241 VVTSIGOLVLYNAREPDAGLYTCTARNNAAGLLRADPFLSVQREPARDAASIPAPAECL 300  
 QY 301 PDVQACTGPTSPHLVLMHYDPQRGCMTEPPARGCDGAARGFETYEACQOACARGPDACY 360  
 Db 301 PDVQACTGPTSPHLVLMHYDPQRGCMTEPPARGCDGAARGFETYEACQOACARGPDACY 360  
 QY 361 LPAVQPCRGMEPRRAYSPILQOCHPFTYGGCGNGNHSRESCEDACPVPTPTPCRCAC 420  
 Db 361 LPAVQPCRGMEPRRAYSPILQOCHPFTYGGCGNGNHSRESCEDACPVPTPTPCRCAC 420  
 QY 421 RLRSKIALSLCRSDFAIVGRLEVELEPEPAAGIARVALEDVLRKDKMGLKFTGYLEY 480  
 Db 421 RLRSKIALSLCRSDFAIVGRLEVELEPEPAAGIARVALEDVLRKDKMGLKFTGYLEY 480  
 QY 481 TISGMDMACPCPNMTAGDGLVIMGEVRDGVAVLDAGSYVRAASEKRYKKILELEKQAC 540  
 Db 481 TISGMDMACPCPNMTAGDGLVIMGEVRDGVAVLDAGSYVRAASEKRYKKILELEKQAC 540  
 QY 541 ELLNRFD 548  
 Db 541 ELLNRFD 548

RESULT 3  
 US-09-819-136-2  
 ; Sequence 2, Application US/09819136  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Conklin, Darrell C.  
 ; APPLICANT: Gao, Zeren  
 ; TITLE OF INVENTION: MULTI-DOMAIN PROTEINASE INHIBITOR  
 ; FILE REFERENCE: 00-25  
 ; CURRENT APPLICATION NUMBER: US/09/819, 136  
 ; CURRENT FILING DATE: 2001-03-27  
 ; PRIOR APPLICATION NUMBER: US 60/193, 642  
 ; PRIOR FILING DATE: 2000-03-31  
 ; NUMBER OF SEQ ID NOS: 13  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 2  
 ; LENGTH: 548  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-819-136-2

Query Match 100.0%; Score 3016; DB 22; Length 548;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-200;  
 Matches 548; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MPAALPPLPLLLRLTSGAGLLPGLSHPGVCPNQLSPNLMVDAOSTCERECSDODCA 60  
 Db 1 MPAALPPLPLLLRLTSGAGLLPGLSHPGVCPNQLSPNLMVDAOSTCERECSDODCA 60  
 QY 61 AAECCTINVCGLHSCVAARFPSPAPPTTAASCEGFVCPQOOSDCCDINDGQVPCRCRDR 120  
 Db 61 AAECCTINVCGLHSCVAARFPSPAPPTTAASCEGFVCPQOOSDCCDINDGQVPCRCRDR 120  
 QY 121 EKEPFTCASDGLTYNNRCYMDAECRLGLHLHIVPCKHVLSWPPSSGPPETTARPTPG 180  
 Db 121 EKEPFTCASDGLTYNNRCYMDAECRLGLHLHIVPCKHVLSWPPSSGPPETTARPTPG 180  
 QY 181 AAPVPALYSSPSPOAVOYGTASTLHCDVSGRPPAVTWKOSHORENLMRPDOMYGNV 240  
 Db 181 AAPVPALYSSPSPOAVOYGTASTLHCDVSGRPPAVTWKOSHORENLMRPDOMYGNV 240  
 QY 241 VVTSIGOLVLYNAREPDAGLYTCTARNNAAGLLRADPFLSVQREPARDAASIPAPAECL 300  
 Db 241 VVTSIGOLVLYNAREPDAGLYTCTARNNAAGLLRADPFLSVQREPARDAASIPAPAECL 300

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